

GARANT Master INOX solid carbide milling cutter HPC, TiAlN, Ø h10 DC: 16 mm



Order data

Order number	202998 16
GTIN	4045197860989
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:

Particularly low vibration running.

Tolerance nominal Ø: h10

No. of teeth Z: 4

Helix angle: 40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4 Flute length L_c: 22 mm Overall length L: 82 mm Shank Ø D_c: 16 mm

Corner chamfer width at 45°: 0.35 mm

Feed f_z for slot milling in stainless steel > 900 N/mm²: 0.05 mm

Technical description

Cutting edge \emptyset D_c	16 mm
Overall length L	82 mm
No. of teeth Z	4



Tolerance nominal Ø h10 Direction of infeed horizontal, oblique and vertical Feed f₂ for side milling in INOX > 900 N/mm² 0.055 mm Corner chamfer width at 45° 0.35 mm Feed f₂ for slot milling in stainless steel > 900 N/mm² 0.05 mm Flute length L₂ 22 mm Shank DIN 6535 HB to h6 Helix angle 40 degrees Corner chamfer angle 45 degrees Series GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a₂ for milling operation Full slot cutting depth 1×D Cutting width a₂ for milling operation 0.3×D for side milling Through-coolant no Machining strategy HPC Colour ring blue	Shank Ø D _s	16 mm
Feed f _z for side milling in INOX > 900 N/mm² Corner chamfer width at 45° 0.35 mm Feed f _z for slot milling in stainless steel > 900 N/mm² 0.05 mm Flute length L _c 22 mm Shank DIN 6535 HB to h6 Helix angle 40 degrees Corner chamfer angle 5eries GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters cutting width a _e for milling operation Cutting width a _e for milling operation Machining strategy HPC	Tolerance nominal Ø	h10
Corner chamfer width at 45° 0.35 mm Feed f_z for slot milling in stainless steel > 900 N/mm^2 0.05 mm Flute length L_c 22 mm ShankDIN 6535 HB to h6 Helix angle 40 degrees Corner chamfer angle 45 degrees SeriesGARANT Master INOXCoatingTiAINTool materialSolid carbideStandardDIN 6527 TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a_c for milling operationFull slot cutting depth $1 \times D$ Cutting width a_c for milling operation $0.3 \times D$ for side millingThrough-coolantnoMachining strategyHPC	Direction of infeed	horizontal, oblique and vertical
$Feed f_z \ for slot milling in stainless steel > 900 \ N/mm^2 \qquad 0.05 \ mm$ $Flute length L_c \qquad 22 \ mm$ $Shank \qquad DIN 6535 \ HB \ to \ h6$ $Helix angle \qquad 40 \ degrees$ $Corner \ chamfer \ angle \qquad 45 \ degrees$ $Series \qquad GARANT \ Master \ INOX$ $Coating \qquad Ti \ AIN$ $Tool \ material \qquad Solid \ carbide$ $Standard \qquad DIN 6527$ $Type \qquad N$ $Helix \ angle \ characteristic \qquad unequal \ spacing$ $Spacing \ of \ the \ cutters \qquad unequal \ spacing$ $Cutting \ width \ a_e \ for \ milling \ operation \qquad Full \ slot \ cutting \ depth \ 1\times D$ $Cutting \ width \ a_e \ for \ milling \ operation \qquad 0.3\times D \ for \ side \ milling$ $Through-coolant \qquad no$ $Machining \ strategy \qquad HPC$	Feed f_z for side milling in INOX > 900 N/mm ²	0.055 mm
Flute length L _c Shank DIN 6535 HB to h6 Helix angle 40 degrees Corner chamfer angle 5eries GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation Machining strategy HPC	Corner chamfer width at 45°	0.35 mm
Shank DIN 6535 HB to h6 Helix angle Corner chamfer angle Series GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters Cutting width ae for milling operation Cutting width ae for milling operation Cutting width ae for milling operation TiAIN DIN 6527 Full slot cutting depth 1×D Cutting width ae for milling operation Through-coolant no Machining strategy HPC	Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.05 mm
Helix angle Corner chamfer angle Series GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation Through-coolant no Machining strategy HPC	Flute length L _c	22 mm
Corner chamfer angle Series GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width ae for milling operation Full slot cutting depth 1×D Cutting width ae for milling operation Through-coolant Machining strategy HPC	Shank	DIN 6535 HB to h6
Series GARANT Master INOX Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation Through-coolant N Machining strategy HPC	Helix angle	40 degrees
Coating TiAIN Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation Through-coolant N Machining strategy HPC	Corner chamfer angle	45 degrees
Tool material Solid carbide Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation Through-coolant no Machining strategy HPC	Series	GARANT Master INOX
Standard DIN 6527 Type N Helix angle characteristic unequal spacing Spacing of the cutters unequal spacing Cutting width a _e for milling operation Full slot cutting depth 1×D Cutting width a _e for milling operation 0.3×D for side milling Through-coolant no Machining strategy HPC	Coating	TiAIN
Type N Helix angle characteristic Spacing of the cutters Cutting width a _e for milling operation Cutting width a _e for milling operation Cutting width a _e for milling operation O.3×D for side milling Through-coolant N N Unequal spacing Full slot cutting depth 1×D O.3×D for side milling Through-coolant N HPC	Tool material	Solid carbide
Helix angle characteristic Spacing of the cutters Cutting width a _e for milling operation Cutting width a _e for milling operation Cutting width a _e for milling operation Through-coolant Machining strategy Unequal spacing Full slot cutting depth 1×D 0.3×D for side milling HPC	Standard	DIN 6527
Spacing of the cuttersunequal spacingCutting width a_e for milling operationFull slot cutting depth $1 \times D$ Cutting width a_e for milling operation $0.3 \times D$ for side millingThrough-coolantnoMachining strategyHPC	Type	N
Cutting width a_e for milling operationFull slot cutting depth $1 \times D$ Cutting width a_e for milling operation $0.3 \times D$ for side millingThrough-coolantnoMachining strategyHPC	Helix angle characteristic	unequal spacing
Cutting width a_e for milling operation $0.3 \times D$ for side milling Through-coolant no Machining strategy HPC	Spacing of the cutters	unequal spacing
Through-coolant no Machining strategy HPC	Cutting width a _e for milling operation	Full slot cutting depth 1×D
Machining strategy HPC	Cutting width a _e for milling operation	0.3×D for side milling
3 37	Through-coolant	no
Colour ring blue	Machining strategy	HPC
	Colour ring	blue
Type of product End mill	Type of product	End mill

Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 16 mm

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