## Garant

Solid carbide side milling cutter HPC, TiAlN, Ø×width ± 0.1×k11: 63X4 mm



## Order data

Order number	185015 63X4
GTIN	4062406397449
Item class	11V

### Description

#### Version:

**Precision solid carbide side milling cutters** in the HPC machining range. **With new high-performance coating** for very long tool life.

**Use as a set:** Cutters with the same Ø and same number of teeth can be combined as a set and adjusted to the required width. Since the cutters have no raised bore collar, the staggered teeth mesh with each other.

**2-piece sets are particularly economical.** By reversing the side milling cutters, both side edges of each cutter can be used.

Note:

- Do not clamp the cutters in a set without a sufficiently thick arbor spacer ring, otherwise the cutters will be damaged.
- · See Product Group 30 for suitable arbor spacer rings.

• Slots milled from solid:  $f_z$  for  $a_e = 0.1 \times D$ .

#### Successor product to No. 185010.

Bore Ø H6 d<sub>1</sub>: 22 mm No. of teeth Z: 18 Collar thickness b  $\pm 0.1$ : 2.8 mm Collar Ø d<sub>2</sub>  $\pm 1$ : 40 mm Tooth height Zh: 11.5 mm Capability of combining 2 cutters of the same width A/B: 4 mm

# **Technical description**

No. of teeth Z18No. of teeth Z11.5 mmTooth height Zh11.5 mmShank typewith boreCollar Ø d2 ±140 mmBore Ø H6 d122 mmCollar thickness b ±0.12.8 mmCapability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCapability of combining 2 cutters of the same width A/B4 mmCoatingTiAINCoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width a, for milling operationHPCMachining strategyHPCThrough-coolantnoColour ringwithoutType of productSide milling cutter	Feed $f_z$ in steel < 900 N/mm <sup>2</sup>	0.05 mm
Shank typewith boreCollar Ø d2 ±140 mmBore Ø H6 d122 mmCollar thickness b ±0.12.8 mmCapability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCutting width50 did carbideCutting width50 did carbideCutting width50 did carbideCoatingTiAINTool material50 did carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width a_ for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	No. of teeth Z	18
Collar Ø d2 ±140 mmBore Ø H6 d122 mmCollar thickness b ±0.12.8 mmCapability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCutting width50 did carbideCutting widthSolid carbideCoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width aa for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Tooth height Zh	11.5 mm
Bore Ø H6 d122 mmCollar thickness b ±0.12.8 mmCapability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCoatingTiAlNCoatingSolid carbideTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ac for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Shank type	with bore
Collar thickness b ±0.12.8 mmCapability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCapability of combining 2 cutters of the same width A/B4 mmCoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ac for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Collar $Ø d_2 \pm 1$	40 mm
Capability of combining 2 cutters of the same width, results in overall width E7.7 - 7.8 mmCutting edge Ø Dc63 mmCutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCapability of combining 2 cutters of the same width A/B4 mmCoatingTiAlNTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width a, for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Bore Ø H6 $d_1$	22 mm
results in overall width E   7.7 - 7.8 mm     Cutting edge Ø Dc   63 mm     Cutting width   4 mm     Capability of combining 2 cutters of the same width A/B   4 mm     Coating   TiAIN     Cool material   Solid carbide     Standard   DIN 885 A     Type   N     Tolerance nominal Ø   ± 0.1     Cutting width ae for milling operation   Full slot cutting depth 1×D     Machining strategy   no     Through-coolant   no	Collar thickness b ±0.1	2.8 mm
Cutting width4 mmCapability of combining 2 cutters of the same width A/B4 mmCoatingTiAINCoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout		7.7 - 7.8 mm
Capability of combining 2 cutters of the same width A/B4 mmCoatingTiAINCoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Cutting edge $Ø D_c$	63 mm
CoatingTiAINTool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Cutting width	4 mm
Tool materialSolid carbideStandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Capability of combining 2 cutters of the same width A/B	4 mm
StandardDIN 885 ATypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Coating	TiAIN
TypeNTolerance nominal ر 0.1Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Tool material	Solid carbide
Tolerance nominal Ø ± 0.1   Cutting width ae for milling operation Full slot cutting depth 1×D   Machining strategy HPC   Through-coolant no   Colour ring without	Standard	DIN 885 A
Cutting width ae for milling operationFull slot cutting depth 1×DMachining strategyHPCThrough-coolantnoColour ringwithout	Туре	Ν
Machining strategyHPCThrough-coolantnoColour ringwithout	Tolerance nominal Ø	± 0.1
Through-coolant no   Colour ring without	Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Colour ring without	Machining strategy	HPC
5	Through-coolant	no
Type of product Side milling cutter	Colour ring	without
	Type of product	Side milling cutter