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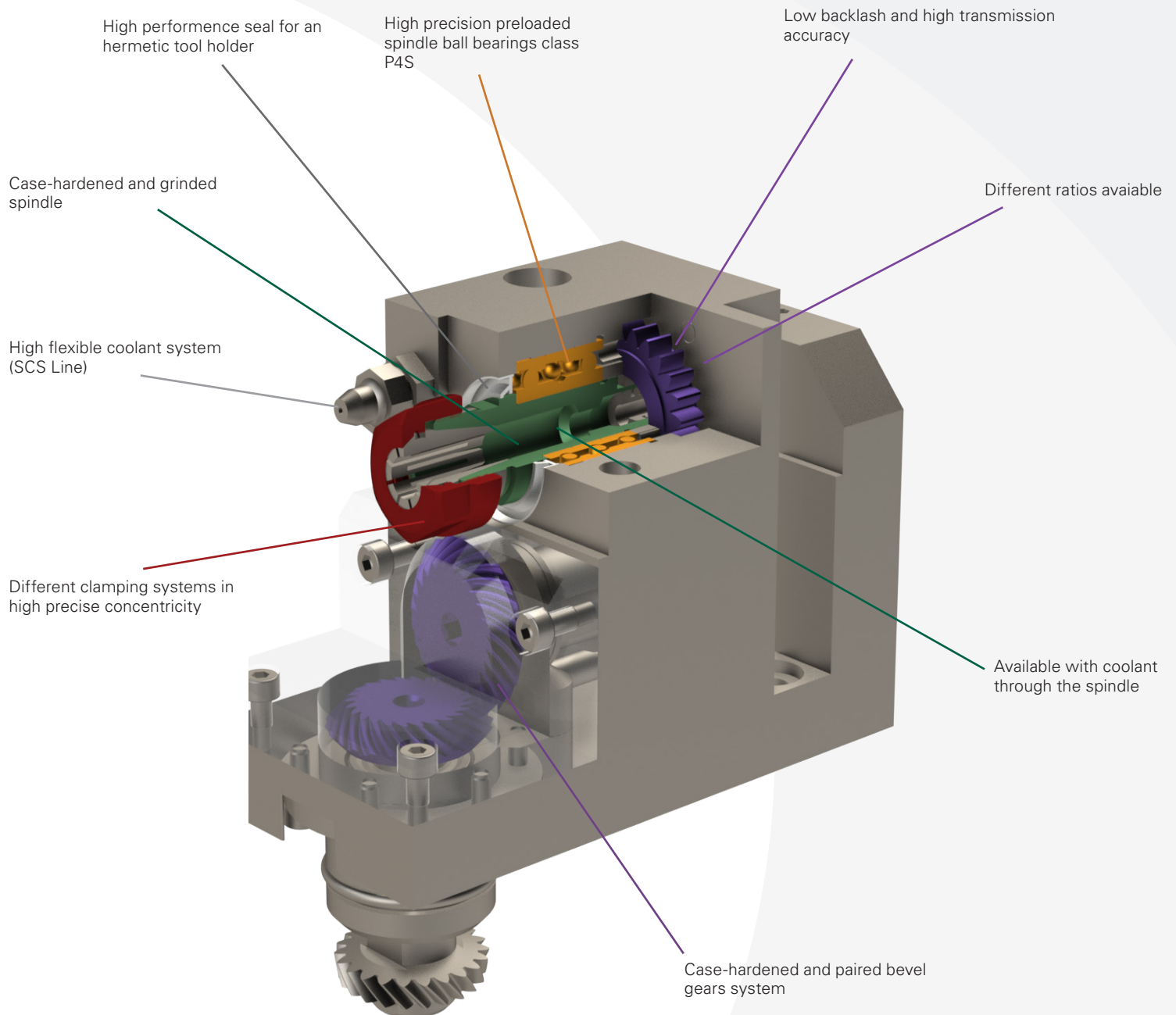
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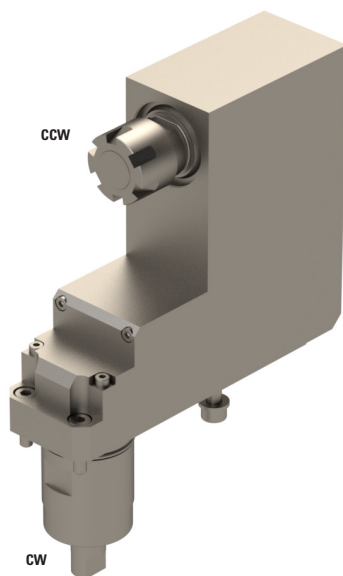
TSUGAMI

Radial tools	5
Axial tools	17
Accelerated tools	25
Polygon tools	37
Angle adjustable tools	43
Slitting saw tools	49
Hobbing tools	53
Whirling tools	61
Static tool	65

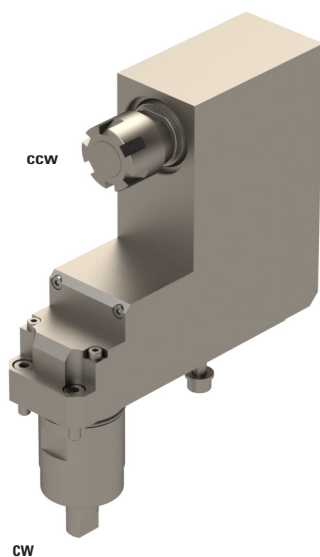
Rotation: **CW** Clockwise **CCW** Counterclockwise

Cooling: **INT** Interior **EXT** Exterior **⊘** Without

RADIAL TOOLS TSUGAMI.

0400-SC020-R00000-1S01

	ER20
	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7 / BO12 / BO20
Notes	

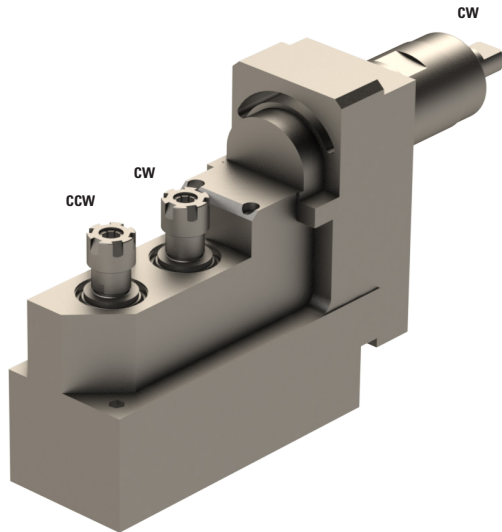
**0400-SC020-R00000-1S02**

	ER20
	1:1
RPM max.	8'000
Position	T11-T12
Machines Types	S206
Notes	



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B07-RSE-207



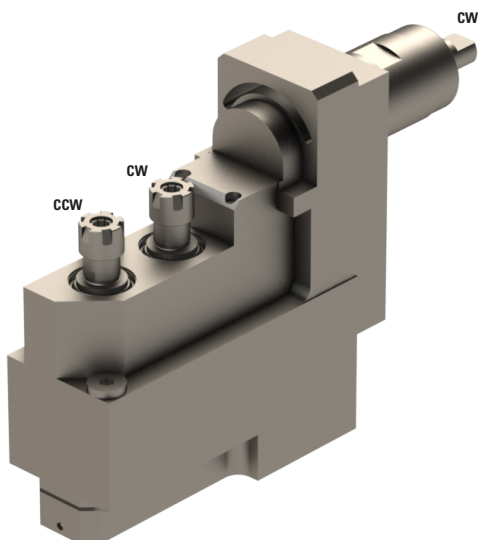
	2x ER11
	1:1
RPM max.	8'000
Position	T01
Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III

Notes

Face drilling/milling
Main spindle



B07-RSE-207-IK



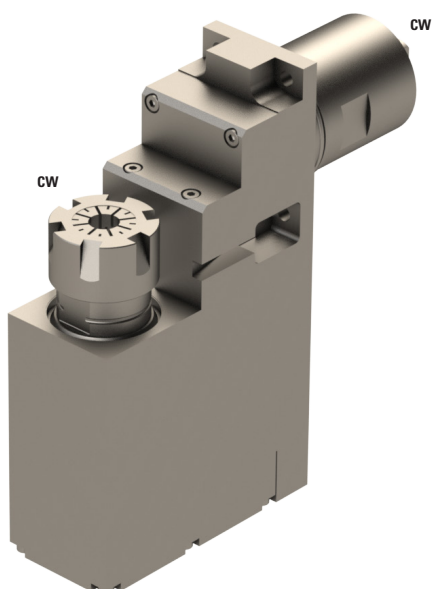
	2x ER11
	1:1
RPM max.	8'000
Position	T01
Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III

Notes

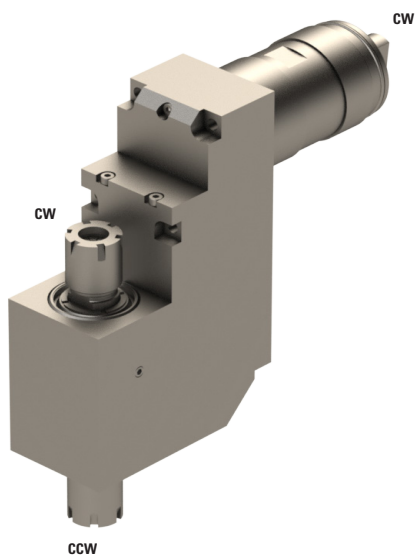
Face drilling/milling
Main spindle
Coolant through spindle



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B026-BSC-116

	ER25
	1:1
RPM max.	6'000
Position	T31-T34
Machines Types	BO26 BO32 BO38

Notes**B026-RSE-110**

	2x ER16
	1:1
RPM max.	8'000
Position	T11
Machines Types	BO26, BO32, BO38

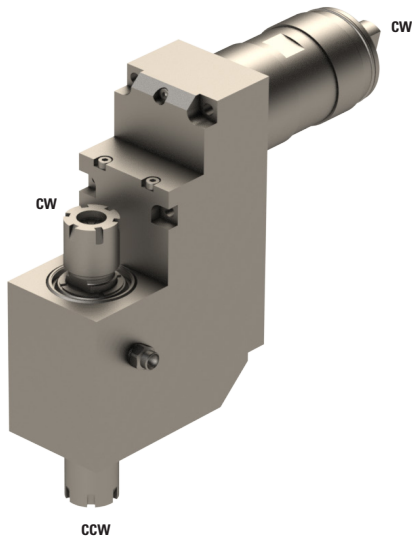
Notes

Face drilling/milling
Main and back spindle



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B026-RSE-110-IK



 2x ER16

 1:1

RPM max. 8'000

Position T11

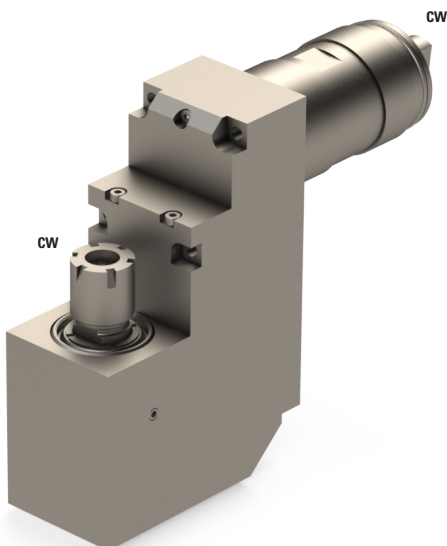
Machines Types BO26, BO32, BO38

Notes

Face drilling/milling
Main and back spindle
Coolant through spindle



B026-RSE-110M



 ER16

 1:1

RPM max. 8'000

Position T11

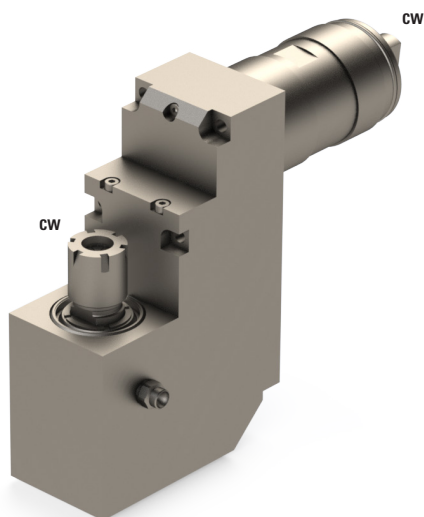
Machines Types BO26, BO32, BO38

Notes

Face drilling/milling
Main spindle



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B026-RSE-110M-IK

	ER16
--	------

	1:1
--	-----

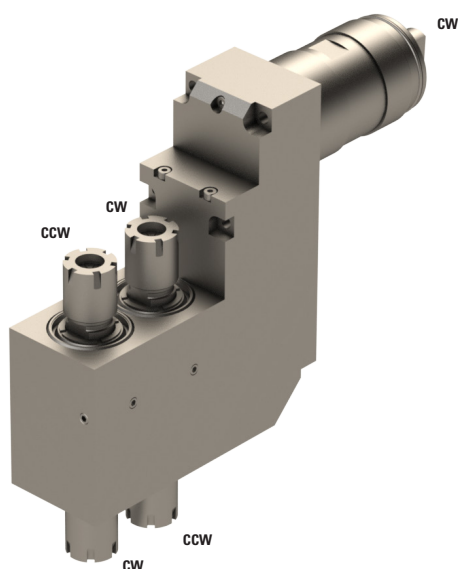
RPM max.	8'000
-----------------	-------

Position	T11
-----------------	-----

Machines Types	BO26, BO32, BO38
-----------------------	------------------

Notes

Face drilling/milling
Main spindle
Coolant through spindle

**B026-RSE-210**

	2x 2x ER16
--	------------

	1:1
--	-----

RPM max.	8'000
-----------------	-------

Position	T11
-----------------	-----

Machines Types	BO26, BO32, BO38
-----------------------	------------------

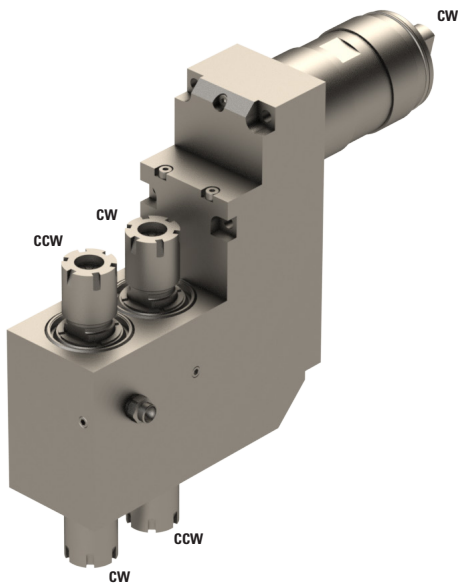
Notes

Face drilling/milling
Main and back spindle



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BO26-RSE-210-IK

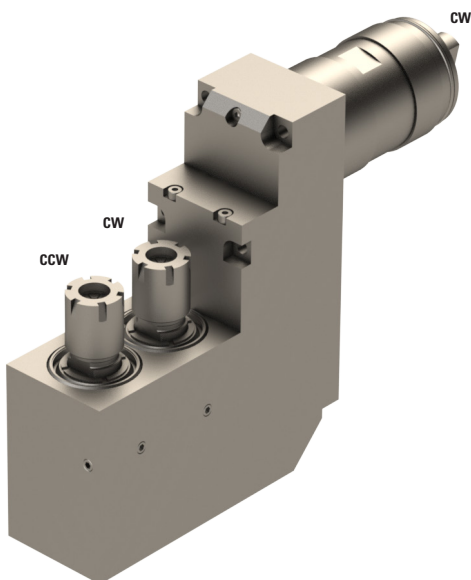


	2x 2x ER16
	1:1
RPM max.	8'000
Position	T11
Machines Types	BO26, BO32, BO38

Notes

Face drilling/milling
Main and back spindle
Coolant through spindle

BO26-RSE-210M

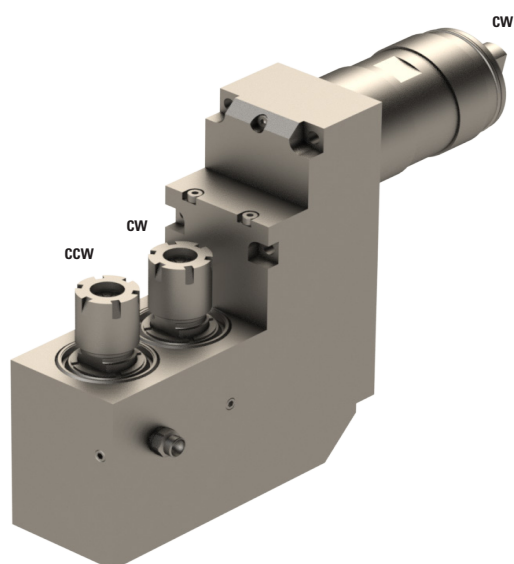


	2x ER16
	1:1
RPM max.	8'000
Position	T11
Machines Types	BO26, BO32, BO38

Notes

Face drilling/milling
Main spindle

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B026-RSE-210M-IK

	2x ER16
--	---------

	1:1
--	-----

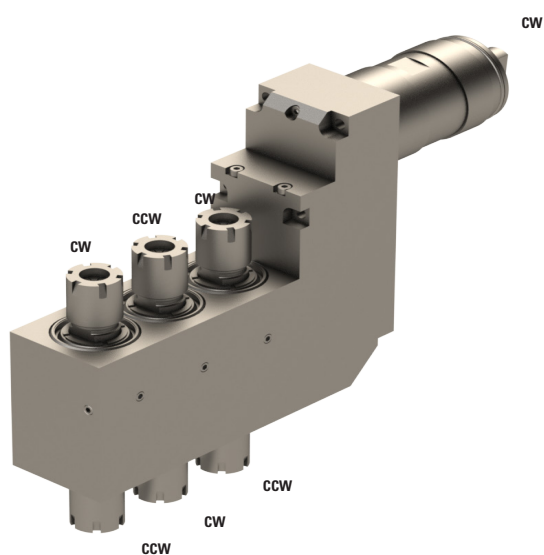
RPM max.	8'000
-----------------	-------

Position	T11
-----------------	-----

Machines Types	BO26, BO32, BO38
-----------------------	------------------

Notes

Face drilling/milling
Main spindle
Coolant through spindle

B026-RSE-310

	3x 2x ER16
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	1:1
--	-----

RPM max.	8'000
-----------------	-------

Position	T11
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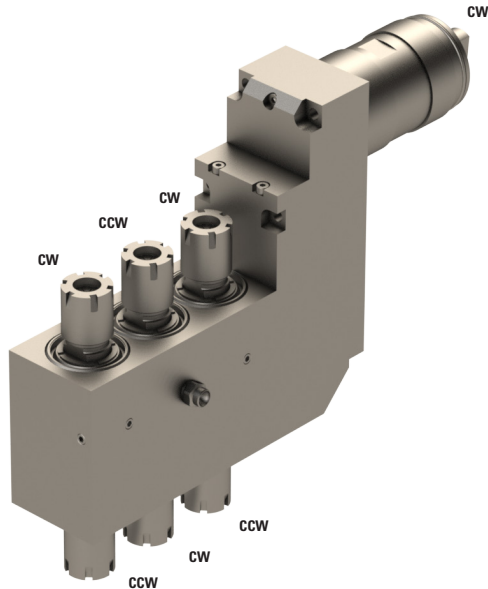
Machines Types	BO26, BO32, BO38
-----------------------	------------------

Notes

Face drilling/milling
Main and back spindle

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B026-RSE-310-IK



 3x 2x ER16

 1:1

RPM max. 8'000

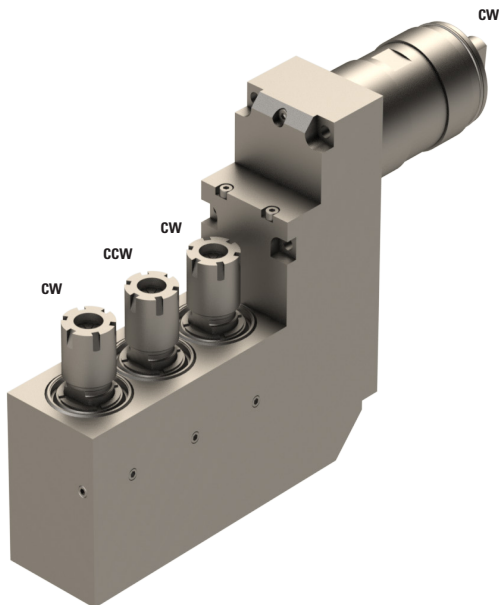
Position T11

Machines Types BO26, BO32, BO38

Notes

Face drilling/milling
Main and back spindle
Coolant through spindle

B026-RSE-310M



 3x ER16

 1:1

RPM max. 8'000

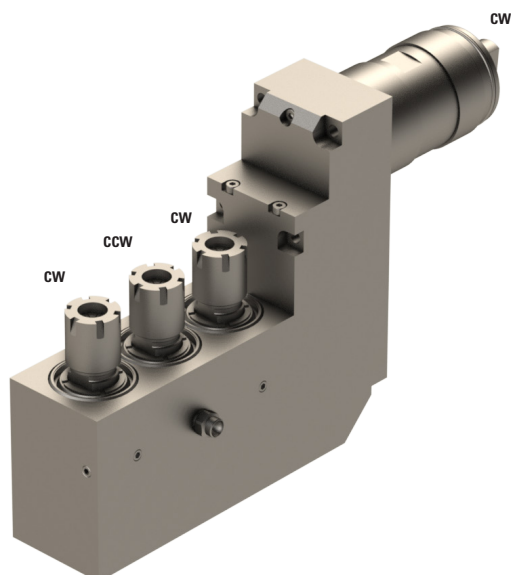
Position T11

Machines Types BO26, BO32, BO38

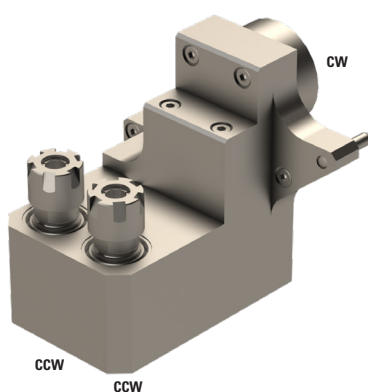
Notes

Face drilling/milling
Main spindle

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B026-RSE-310M-IK

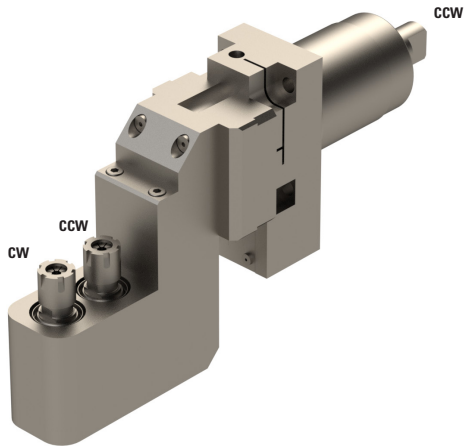
	3x ER16
	1:1
RPM max.	8'000
Position	T11
Machines Types	BO26, BO32, BO38
Notes	Face drilling/milling Main spindle Coolant through spindle

P03-GSE-207-II

	2xER08
	1:1
RPM max.	8'000
Position	-
Machines Types	P034H
Notes	This tool can only be used with the TSUGAMI base 0400-BU000-01.

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TSUGAMI1-GSE208



2xER08



1:1

RPM max.

6'000

Position

T01

Machines Types

BO7-BO12-BO20
S205-S206

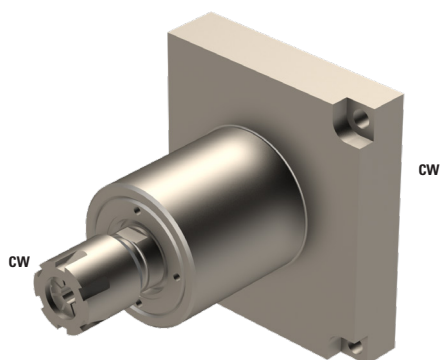
Notes

The TSUGAMI1-PCR base and GSE208 head are together on this tool.
Possibility to order them individually.



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AXIAL TOOLS TSUGAMI.

0400-SC011-A00000-1S01

ER11



1:1

RPM max.

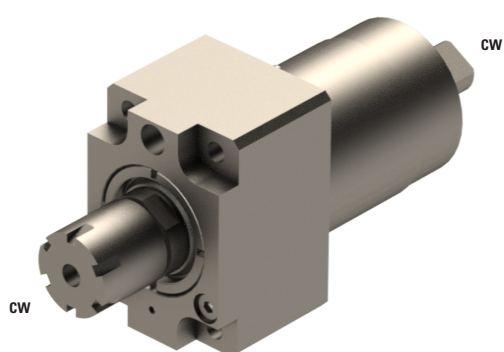
8'000

Position

T05

Machines Types

P034H

Notes**0400-SC016-A00000-1S01**

ER16



1:1

RPM max.

5'000

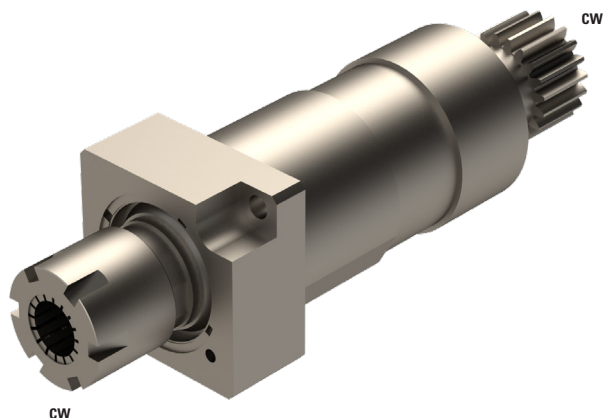
Position

T31-T34

Machines TypesB0265 II, B0265B II,
B0325 II, B0325B II,
B0266 II, B0326 II**Notes**

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0400-SC016-A00000-1S02

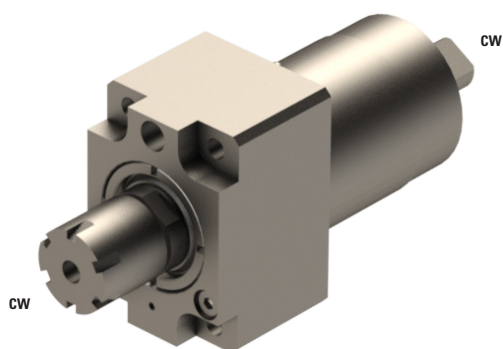


	ER16
	1:1
RPM max.	8'000
Position	T01-T02,T11-T12
Machines Types	BW207 BW208 BW208Z BW209Z

Notes



0400-SC016-A000H0-1S01



	ER16
	1:1
RPM max.	5'000
Position	T31-T34
Machines Types	B0265 II, B0265B II, B0325 II, B0325B II, B0266 II, 0326 II

Notes

Intern, max 220 [bar]
There is a need for an oil filtered at 50µm.

Delivered with a high pressure flexible tube L:600 mm with fast coupling.

Article: NA-BO26-01, NA-QC-01-00

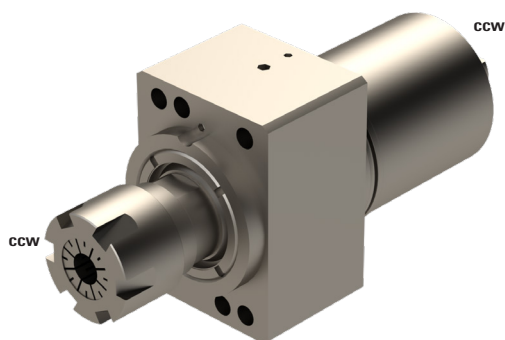
Input: M8x1(M)

Output: M6x1(M)

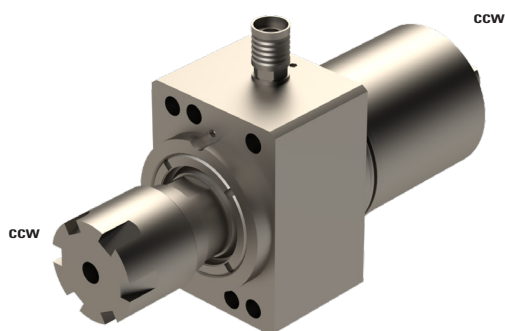
Pression max = 220 [bar]



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0400-SC020-A00000-1S01

	ER20
	1:1
RPM max.	5'000
Position	T31-T34
Machines Types	BO265-II BO266-II BO325-II BO326-II BO385 BO385L
Notes	

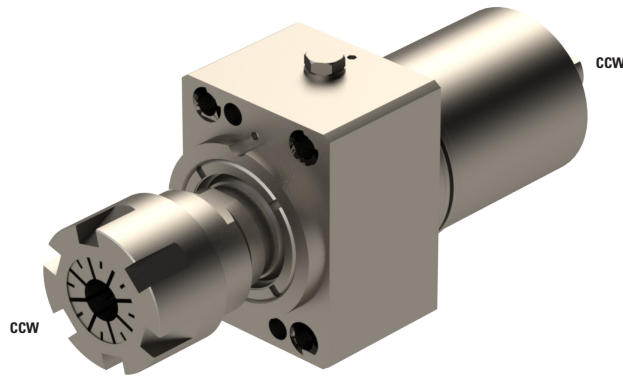
**0400-SC020-A000H0-1S01**

	ER20
	1:1
RPM max.	5'000
Position	T31-T34
Machines Types	BO265-II BO266-II BO325-II BO326-II BO385 BO385L
Notes	Oil filtered to 50µm is required. The high pressure lines are not supplied



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0400-SC025-A000H0-1S01



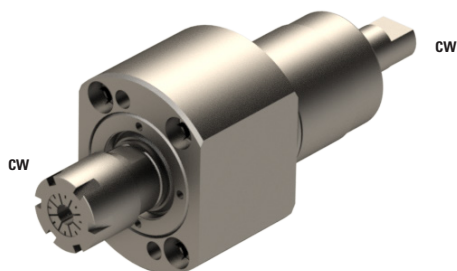
	ER25
	1:1
RPM max.	5'000
Position	T31-T34
Machines Types	BO26 / BO32 / BO38

Notes

Intern, max 170 [bar]
There is a need for an oil filtered at 50µm.
The high pressure flexible tubes are not delivered.
Tapping for high pressure flexible tube: M6.
Possibility of ordering a high pressure flexible tube with distributor 4 outputs L:600 mm.
Article: **MI-BO26-01** Input: 1/4»(M) Output: M8x1(F)
Pression max = 220 [bar]
Possibility of ordering a high pressure flexible tube L:305 mm.
Article: **NA-BO26-01** Input: M8x1(M) Output: M6x1(M)
Pression max = 220 [bar]



B07-GSC-110



	ER16
	1:1
RPM max.	8'000
Position	T01

Machines Types

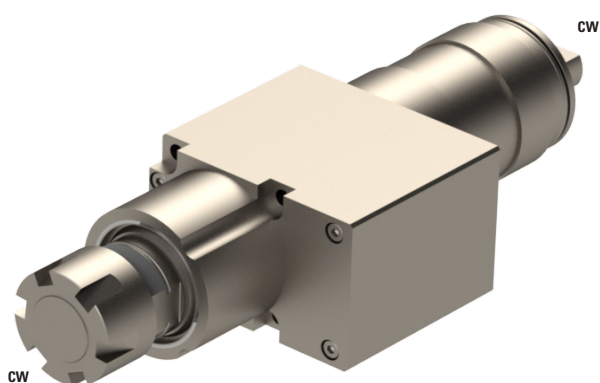
B073 - III, B074 - III,
B0123 - III, B0124 - III,
B0203 - III, B0204 - III,
B075 - III, B0125 - III,
B0126 - III, B0205 - III,
B0206 - III

Notes

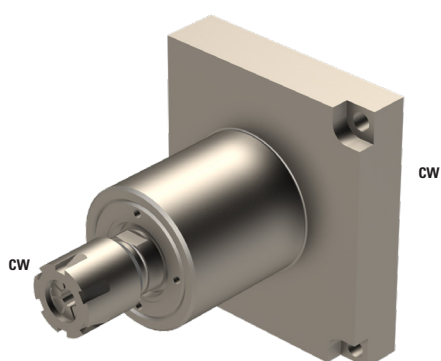
Cross drilling/milling
Main Spindle



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B026-RSC-125

	ER25
	2.25:1
RPM max.	2'667
Position	T11-T14-T17
Machines Types	BO26 BO32 BO38

Notes**P03-GSC-015**

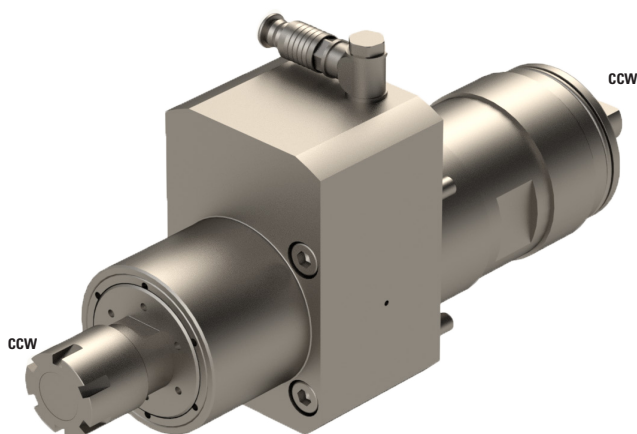
	ER08
	1:1
RPM max.	8'000
Position	T05
Machines Types	P034H

Notes

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ACCELERATED TOOLS TSUGAMI.

0400-SC016-A00AH0-1S01

	ER11
--	------

	1:3
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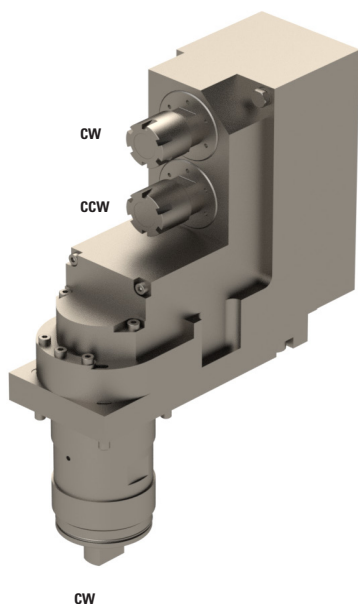
RPM max.	18'000
-----------------	--------

Position	T11-T14-T17
-----------------	-------------

Machines Types	BO26 / BO32 / BO38
-----------------------	--------------------

Notes

Intern, max 120 [bar]
 There is a need for an oil filtered at 50µm.
 The high pressure flexible tubes are not delivered.
 Tapping for high pressure flexible tube: M6.
 Possibility of ordering a high pressure flexible tube with distributor 4 outputs L:600 mm.
 Article: **MI-BO26-01** Input: 1/4»(M) Output: M8x1(F)
 Pression max = 220 [bar]
 Possibility of ordering a high pressure flexible tube L:305 mm.
 Article: **NA-BO26-01** Input: M8x1(M) Output: M6x1(M)
 Pression max = 220 [bar]

**0400-SC016-R00A00-2S01**

	2xER16
--	--------

	1:3
--	-----

RPM max.	18'000
-----------------	--------

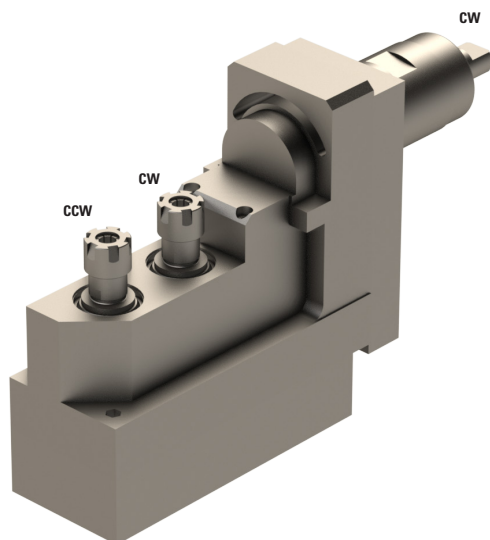
Position	T11/T14/T17
-----------------	-------------

Machines Types	BO26 / BO32 / BO38
-----------------------	--------------------

Notes

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B07-RSE-207-2X



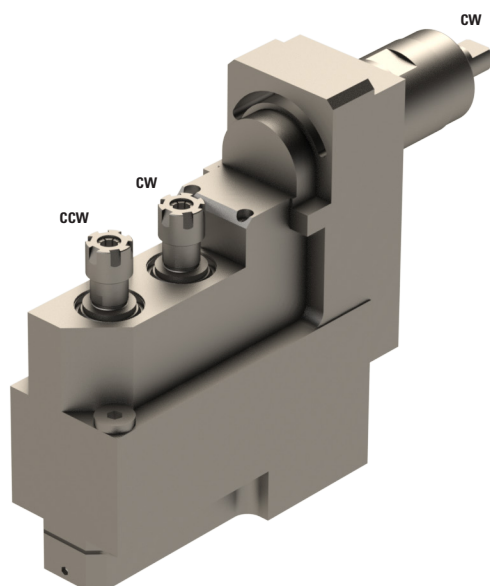
	2x ER11
	1:2
RPM max.	16'000
Position	T01
Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III

Notes

Face drilling/milling
Main spindle
Speeder



B07-RSE-207-IK-2X



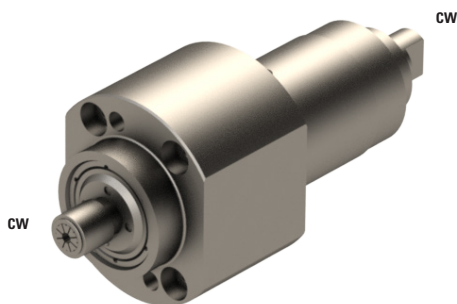
	2x ER11
	1:2
RPM max.	16'000
Position	T01
Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III

Notes

Face drilling/milling
Main spindle
Speeder
Coolant through spindle



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B07-GSC-105-4X

	ER8
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	1:3.8
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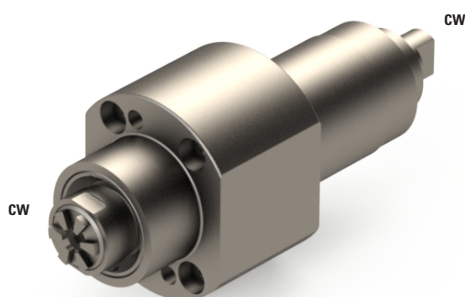
RPM max.	22'800
-----------------	--------

Position	T01
-----------------	-----

Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III,
-----------------------	--

Notes

Cross drilling/milling
Main Spindle
Speeder

**B07-GSC-107-4X**

	ER11
--	------

	1:3.8
--	-------

RPM max.	22'800
-----------------	--------

Position	T01
-----------------	-----

Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III
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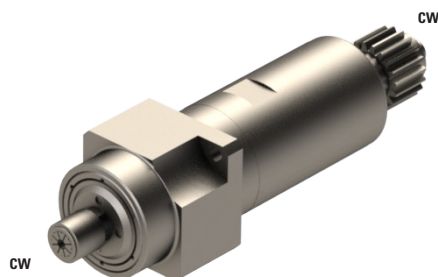
Notes

Cross drilling/milling
Main Spindle
Speeder



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BW20-GSC-105-4X



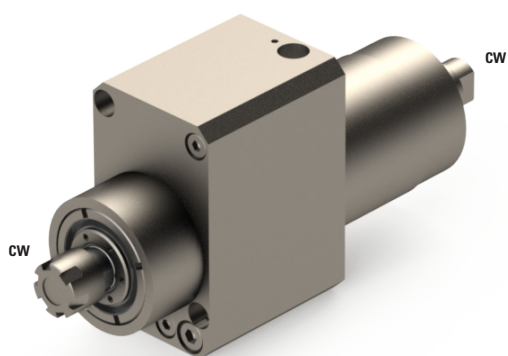
	ER08
	1:3.8
RPM max.	30'400
Position	T01, T02, T11, T12
Machines Types	BW207 BW208 BW208Z BW209Z

Notes

Cross drilling/milling
Main spindle
Speeder



B026-BSC-107-3X-HP



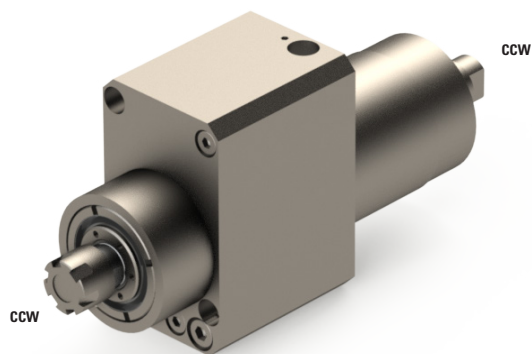
	ER8
	1:1
RPM max.	24'000
Position	T31-T34
Machines Types	B0265 II, B0265B II, B0325 II, B0325B II, B0266 II, 0326 II

Notes

Face drilling/milling
Back tool post
Back Spindle
Coolant through spindle
Speeder



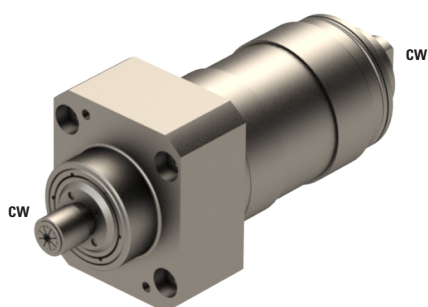
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B026-BSE-107-3X-HP

	ER11	
	1:3	
RPM max.	15'000	
Position	T31-T34	
Machines Types	BO265-II	BO326-II
	BO266-II	BO385
	BO325-II	BO385L

Notes

There is a need for an oil filtered at 50µm.
 The high pressure flexible tubes are not delivered.
 Tapping for high pressure flexible tube: M6.
 Possibility of ordering a high pressure flexible tube with distributor 4 outputs
 MI-BO26-01
 Possibility of ordering a high pressure flexible tube L:305 mm.
 NA-BO26-01

**B026-GSC-105-4X**

	ER8	
	1:3.8	
RPM max.	22'800	
Position	T11-T15	
Machines Types	B0265 II, B0265B II,	
	B0325 II, B0325B II,	
	B0266 II, 0326 II	

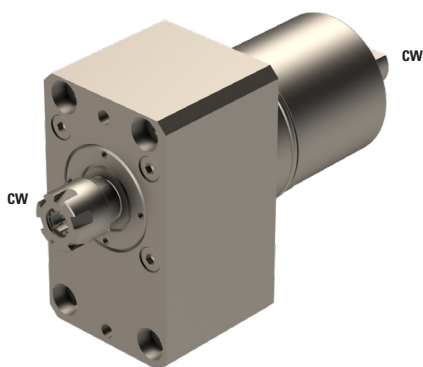
Notes

Cross drilling/milling
 Main Spindle
 Speeder



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B026-GSC-107-3X



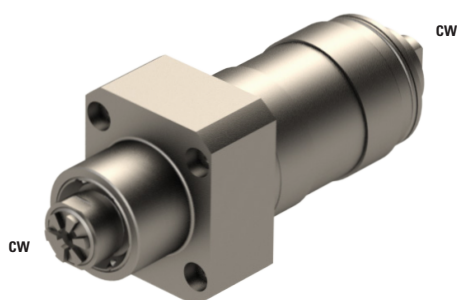
	ER11
	1:3
RPM max.	15'000
Position	T11-T15
Machines Types	B0265 II, B0265B II, B0325 II, B0325B II, B0266 II, 0326 II

Notes

Cross drilling/milling
Main Spindle
Speeder



B026-GSC-107-4X



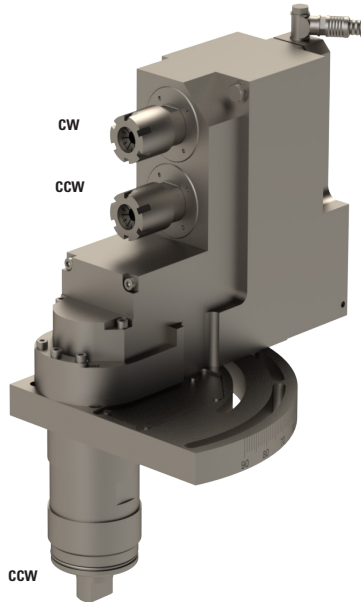
	ER11
	1:3.8
RPM max.	22'800
Position	T11-T15
Machines Types	B0265 II, B0265B II, B0325 II, B0325B II, B0266 II, 0326 II

Notes

Cross drilling/milling
Main Spindle
Speeder



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BO26-RSA-210-3X-IK

2xER16



1:3

RPM max.

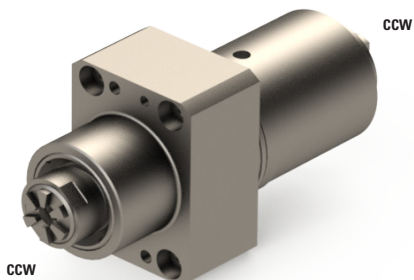
18'000

Position

T11

Machines TypesBO26
BO32
BO38**Notes**

There is a need for an oil filtered at 50µm.
Adjustable $\pm 0-90^\circ$

**BO26-RSE-107-4X**

ER11



1:3.8

RPM max.

22'800

Position

T31-T34

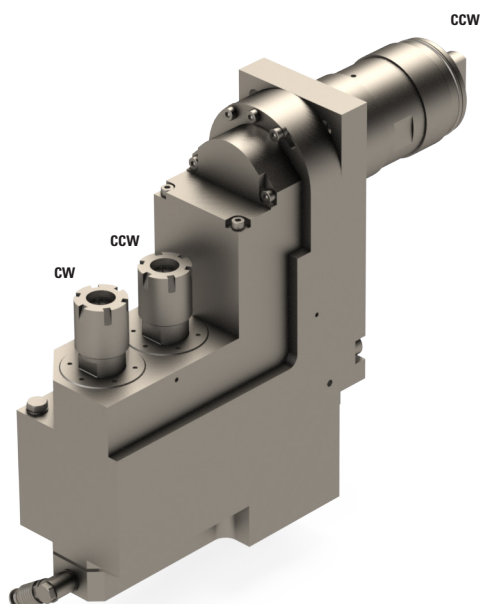
Machines TypesBO26, BO32, BO38
SS26, SS32**Notes**

Face drilling/milling
Main and back spindle



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B026-RSE-210-3X-IK

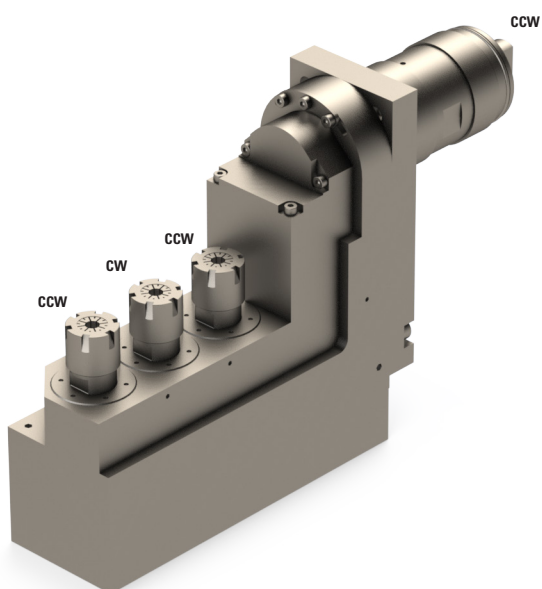


	2xER16+2xER16
	1:3
RPM max.	18'000
Position	T11-T14-T17
Machines Types	BO26 BO32 BO38

Notes

Max pressure 120 bar
There is a need for an oil filtered at 50µm.
Main spindle
Coolant through spindle

B026-RSE-310-3X

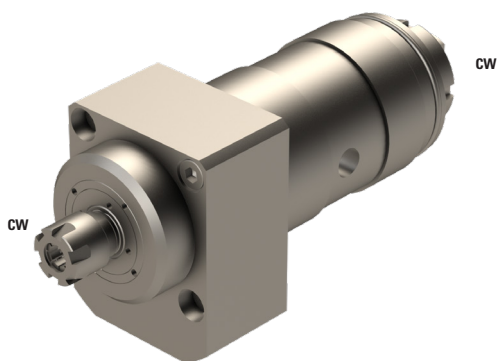


	3xER16+3xER16
	1:3
RPM max.	24'000
Position	T11
Machines Types	BO26 BO32 BO38

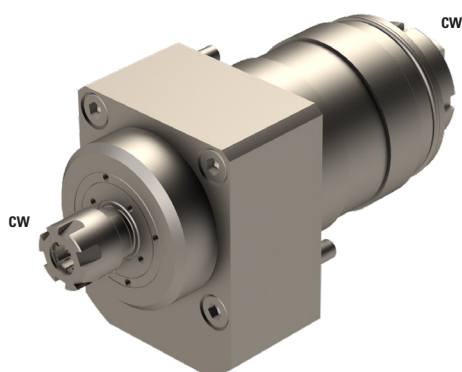
Notes

Main and back spindle

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HS20-GSC-107-3X-II

	ER11
	1:3
RPM max.	15'000
Position	T01, T02, T11-T15
Machines Types	SS20, SS32, HS20, HS32
Notes	
Cross drilling/milling Main Spindle Speeder	

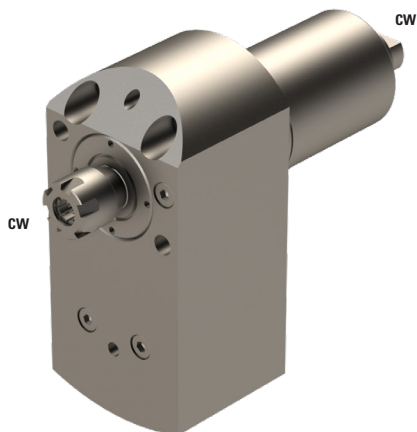
**HS20-GSE-107-3X-II**

	ER11
	1:3
RPM max.	15'000
Position	T31-T34
Machines Types	SS20, SS32, HS20, HS32
Notes	
Face drilling/milling Need 2 tool position (T35 - T38) Back Spindle Speeder	



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S20-RSC-107-3X



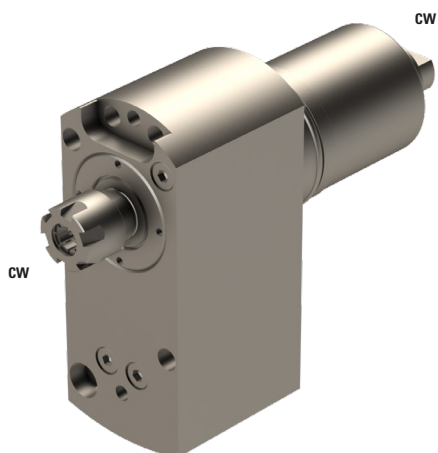
	ER11
	1:3
RPM max.	24'000
Position	T31-T34
Machines Types	S205, S206

Notes

Cross drilling/milling
Need 2 tool position (T35 - T38)
Main Spindle
Speeder



S20-RSE-107-3X



	ER11
	1:3
RPM max.	24'000
Position	T31-T34
Machines Types	S205, S206

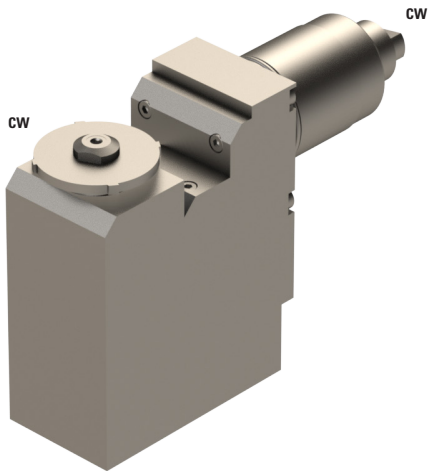
Notes

Face drilling/milling
Need 2 tool position (T35 - T38)
Back Spindle
Speeder



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POLYGON TOOLS TSUGAMI.

B07-GSF-418

	8 mm
--	------

	1:1
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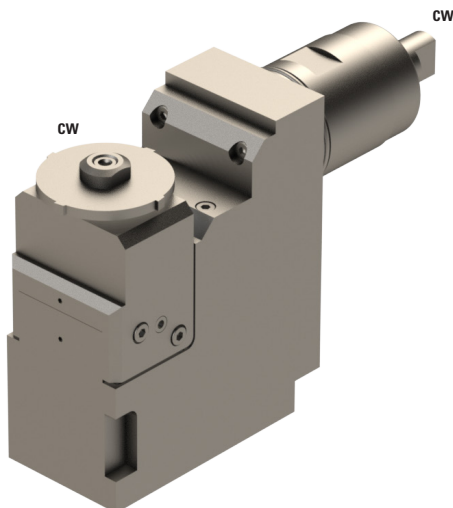
RPM max.	8'000
-----------------	-------

Position	T01
-----------------	-----

Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III
-----------------------	---

Notes

Main Spindle
Driven toolholder for thread milling
Milling cutters, $\varnothing_{\text{max}}=72\text{mm}$, Width= L = 3-5 mm
Line of cutting in 1mm of the spindle

**B07-GSF-518**

	8 mm
--	------

	1:1
--	-----

RPM max.	8'000
-----------------	-------

Position	T01
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Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III
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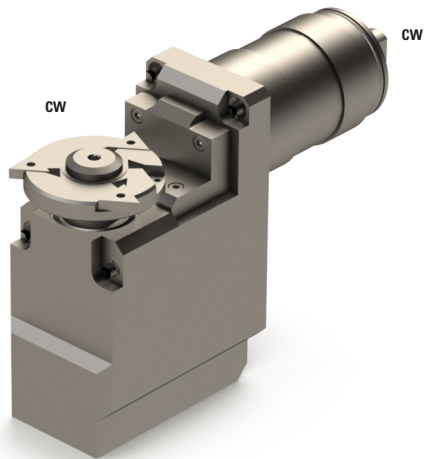
Notes

Main Spindle
Driven toolholder for thread milling
Milling cutters, $\varnothing_{\text{max}}=72\text{mm}$, Width= L = 3-5 mm
Line of cutting in 1mm of the spindle
Slope 0...1.5°



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BO26-GSP-013



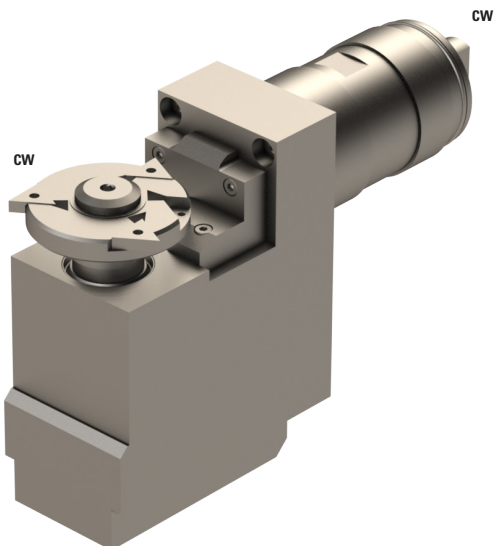
	13 mm
	1:1
RPM max.	6'000
Position	T01
Machines Types	BO26/BO32/BO38

Notes

Diameter of the mill : Ø72 mm max.
Width of mill cutter : 8.3 mm max.



HS20-GSP-613



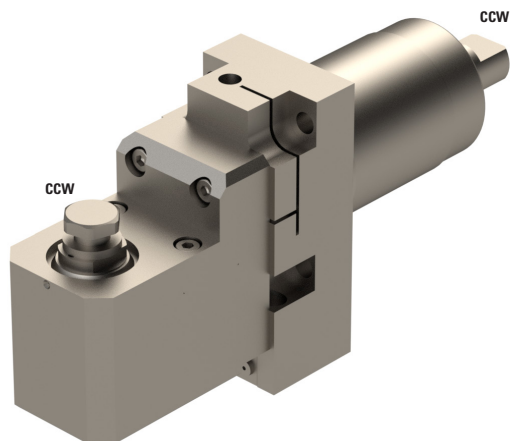
	13
	1:1
RPM max.	5'000
Position	T01, T02, T11-T15
Machines Types	SS20, SS32, HS20, HS32

Notes

Polygon cutting
Main Spindle
Max. tool Ø72 mm
Max. thickness 8.3 mm



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TSUGAMI1-GSP-218

Ø	8mm
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

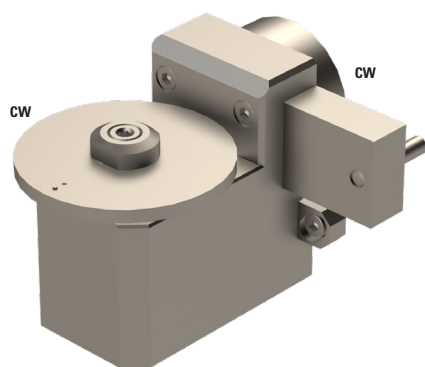
Notes

The TSUGAMI1-PCR base and GSP-218 head are together on this tool.

Adjustable : $\pm 15^\circ$

Diameter of the mill : $\varnothing 46$ mm max.

Width of mill cutter : 5mm max.

**P03-GSP-118**

⚙️	8
⚙️	1:1
RPM max.	8'000
Position	Linear slide
Machines Types	P034H

Notes

Adjustable $\pm 2.5^\circ$

Diameter of the mill : $\varnothing 45$ mm max.

Width of mill cutter : 3-5mm max.

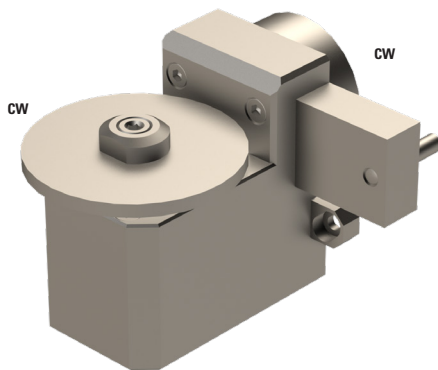
This tool can only be used with the TSUGAMI base 0400-BU000-01.

Cutting line 1 mm from the chisel cutting line of block 0400-BU000-01.



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P03-GSP-218



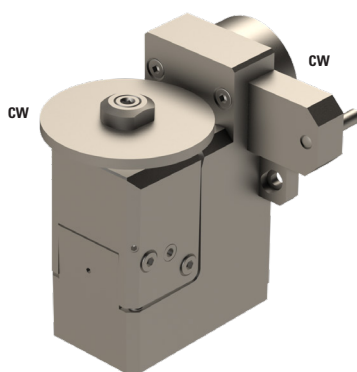
	8
	1:1
RPM max.	8'000
Position	Linear slide
Machines Types	P034H

Notes

Adjustable $\pm 2.5^\circ$
 Diameter of the mill : $\varnothing$ 45mm max.
 Width of mill cutter : 3mm max.
 This tool can only be used with the TSUGAMI base 0400-BU000-01
 Cutter-saw has the same offset as the cutter carrier
 Cutting line aligned with the chisels of block 0400-BU000-01



P03-GSP-318



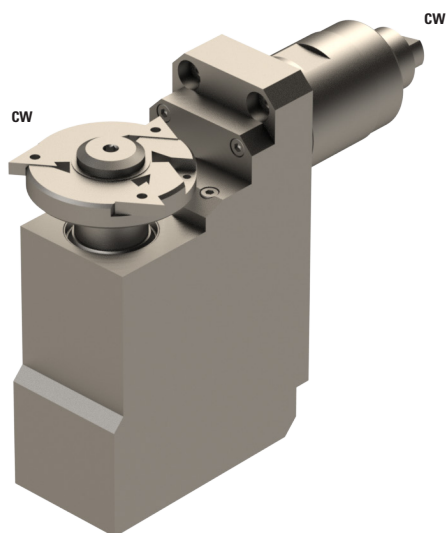
	8
	1:1
RPM max.	8'000
Position	Linear slide
Machines Types	P034H

Notes

Diameter of the mill : $\varnothing$ 45mm max.
 Width of mill cutter : 3mm max.
 This tool can only be used with the TSUGAMI base 0400-BU000-01
 Cutter-saw has the same offset as the cutter carrier
 Cutting line aligned with the chisels of block 0400-BU000-01
 Adjustable in X: $\pm 2.5^\circ$
 Adjustable in Y: $\pm 1.5^\circ$



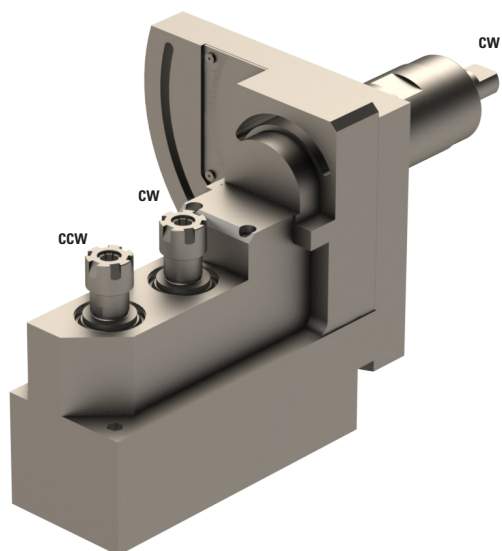
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S20-GSP-613 13 1:1**RPM max.** 8'000**Position** T11-T13**Machines Types** S205, S206**Notes**

Polygon cutting
Main Spindle
Max. tool Ø72 mm
Max. thickness 8.3 mm



ADJUSTABLE TOOLS TSUGAMI.

B07-GSA-207

 2x ER11

 1:1

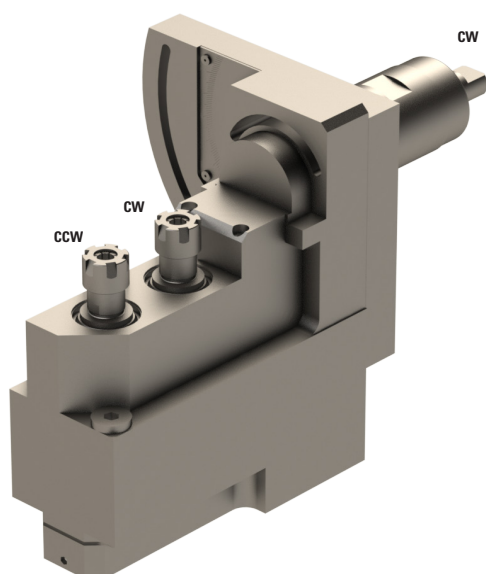
RPM max. 8'000

Position T01

Machines Types
B073 - III, B074 - III,
B0123 - III, B0124 - III,
B0203 - III, B0204 - III,
B075 - III, B0125 - III,
B0126 - III, B0205 - III,
B0206 - III

Notes

Face, cross & angular drilling/milling
Main spindle
Inclination : 90°

**B07-GSA-207-IK**

 2x ER11

 1:1

RPM max. 8'000

Position T01

Machines Types
B073 - III, B074 - III,
B0123 - III, B0124 - III,
B0203 - III, B0204 - III,
B075 - III, B0125 - III,
B0126 - III, B0205 - III,
B0206 - III

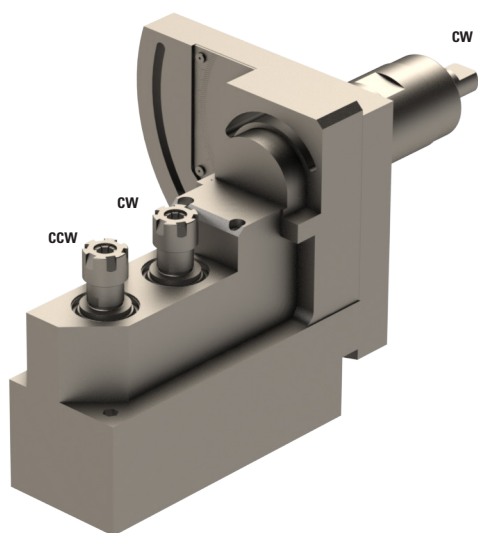
Notes

Face, cross & angular drilling/milling
Main spindle
Coolant through spindle
Inclination : 90°



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B07-GSA-207-2X



 2x ER11

 1:2

RPM max. 16'000

Position T01

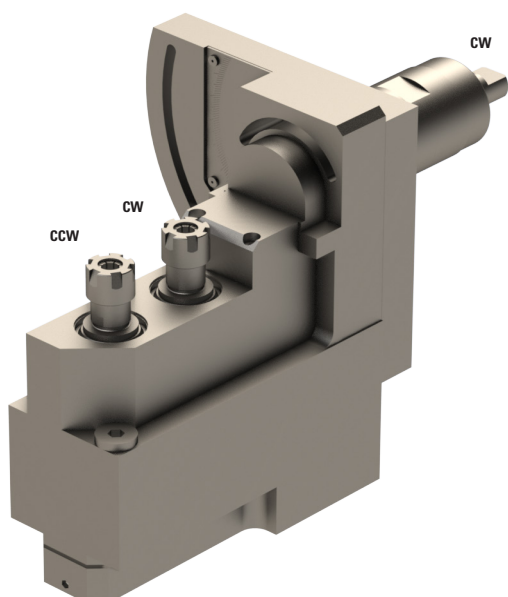
Machines Types
B073 - III, B074 - III,
B0123 - III, B0124 - III,
B0203 - III, B0204 - III,
B075 - III, B0125 - III,
B0126 - III, B0205 - III,
B0206 - III

Notes

Face, cross & angular drilling/milling
Speeder
Main spindle
Inclination : 90°



B07-GSA-207-IK-2X



 2x ER11

 1:2

RPM max. 16'000

Position T01

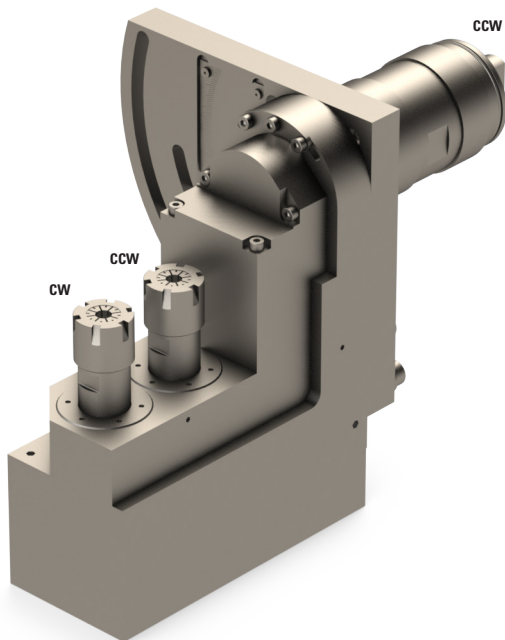
Machines Types
B073 - III, B074 - III,
B0123 - III, B0124 - III,
B0203 - III, B0204 - III,
B075 - III, B0125 - III,
B0126 - III, B0205 - III,
B0206 - III

Notes

Face, cross & angular drilling/milling
Main spindle
Speeder
Coolant through spindle
Inclination : 90°



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BO26-RSA-210M-3X

2xER16



1:3

RPM max.

18'000

Position

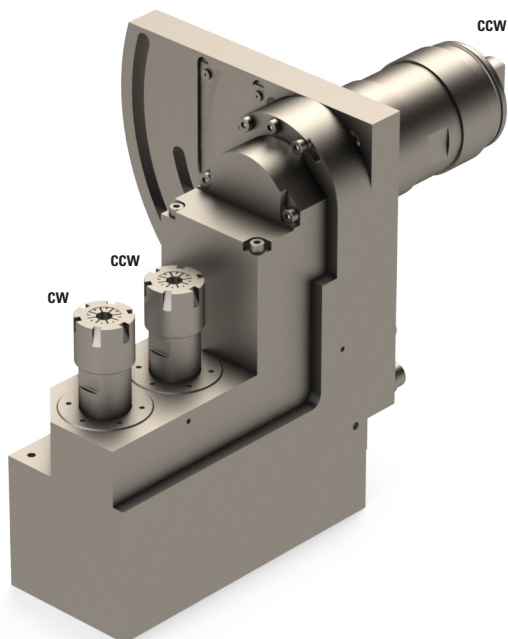
T11

Machines Types

BO26

BO32

BO38

NotesAdjustable $\pm 0-90^\circ$ **BO26-RSA-210ML-3X**

2xER16



1:3

RPM max.

18'000

Position

T11-T14-T17

Machines Types

BO26

BO32

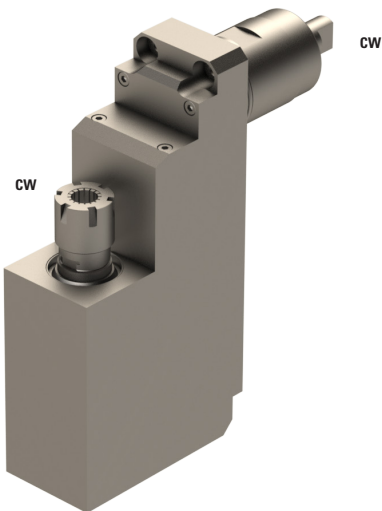
BO38

NotesAdjustable $\pm 0-90^\circ$
10mm longer spindle

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SLITTING SAW TOOLS TSUGAMI.

B07-GSS-110

	ER16
--	------

	1:1
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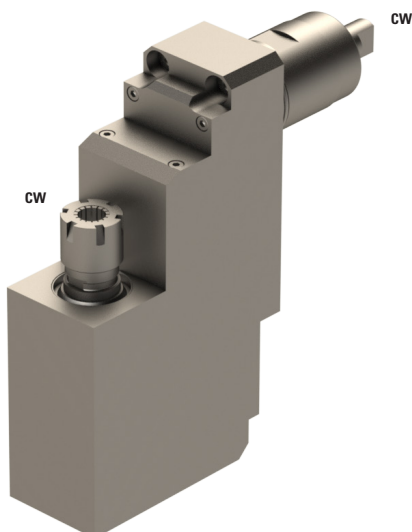
RPM max.	8'000
-----------------	-------

Position	T01
-----------------	-----

Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III
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Notes

Slitting
Main Spindle
Milling cutter Ø= 40- 70mm
Driven toolholder for slitting or face drilling / milling

**B07-GSS-110-II**

	ER16
--	------

	1:1
--	-----

RPM max.	8'000
-----------------	-------

Position	T01
-----------------	-----

Machines Types	B073 - III, B074 - III, B0123 - III, B0124 - III, B0203 - III, B0204 - III, B075 - III, B0125 - III, B0126 - III, B0205 - III, B0206 - III
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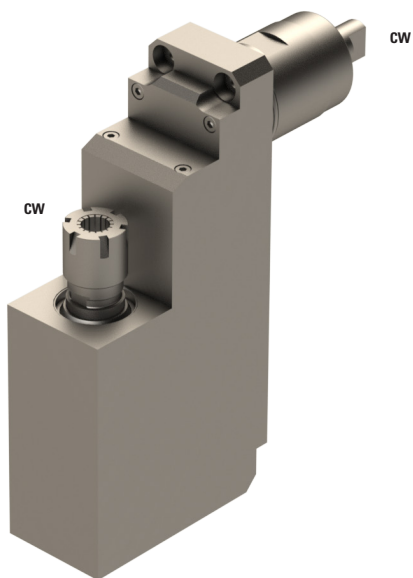
Notes

Slitting
Main Spindle
Milling cutter Ø= 14- 45mm
Driven toolholder for slitting or face drilling / milling



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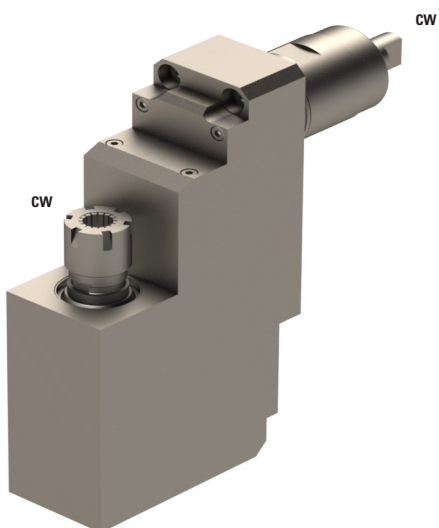
S206-GSS-110



	ER16
	1:1
RPM max.	8'000
Position	T11
Machines Types	S205, S206
Notes	
Diameter of the milling cutter. : Ø30-70mm	



S20-RSS-110-II

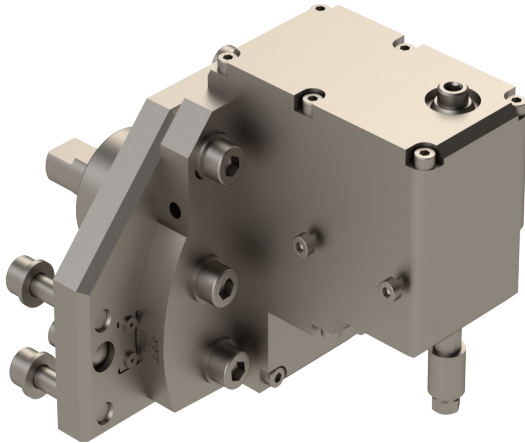


	ER16
	1:1
RPM max.	8'000
Position	T11-T13
Machines Types	S205, S206
Notes	
Slitting Main Spindle Driven toolholder for slitting or face drilling / milling Milling cutter Ømax= 14 - 45mm	

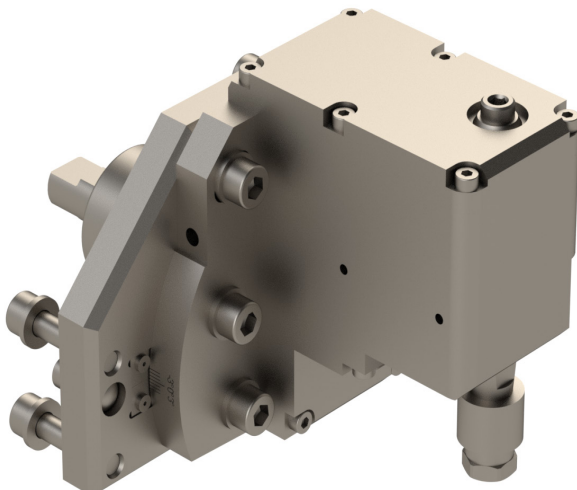


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HOBGING TOOLS TSUGAMI.

BO7-GSH-035

	3.5 mm
	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7/BO12/BO20
Notes	
Diameter of the mill : Ø 18mm max. Width of mill cutter : 15 mm max.	

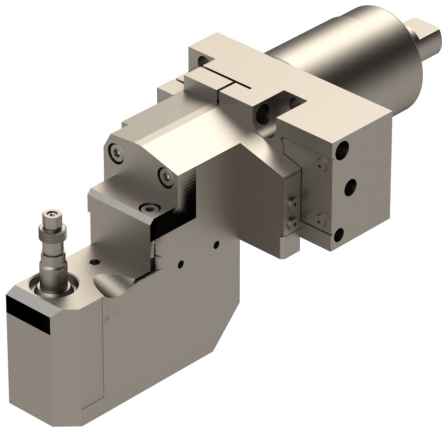
**BO7-GSH-080**

	8 mm
	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7/BO12/BO20
Notes	
Diameter of the mill : Ø 18mm max. Width of mill cutter : 15 mm max.	



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TSUGAMI1-GSH-045



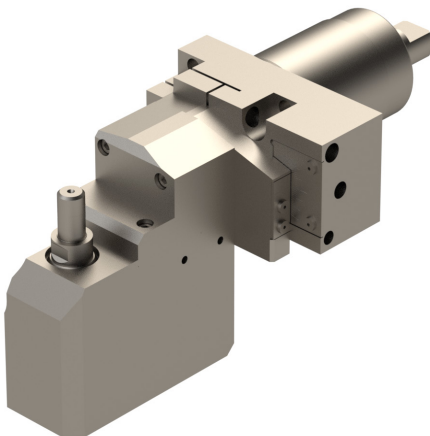
Ø	4.5
⚙️➕⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and GSH-045 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 4mm max.



TSUGAMI1-GSH-080



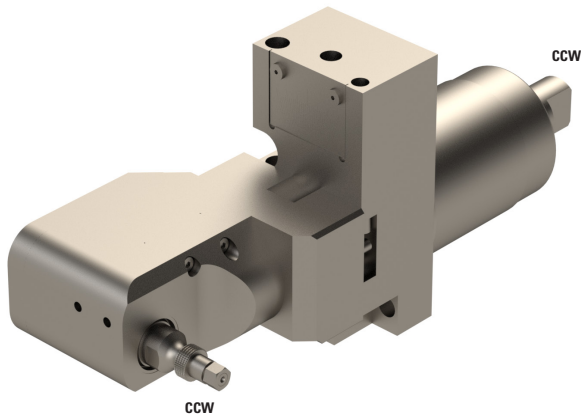
Ø	8
⚙️➕⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and GSH-080 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 10mm max.



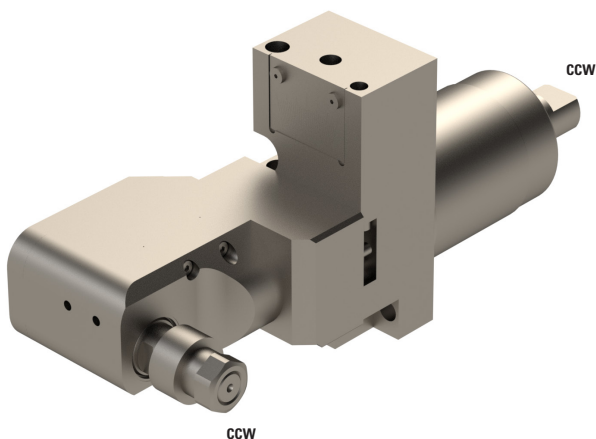
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TSUGAMI1-LSH-035

Ø	3.5
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and LSH-035 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 4-8mm max.

**TSUGAMI1-LSH-050**

Ø	5
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

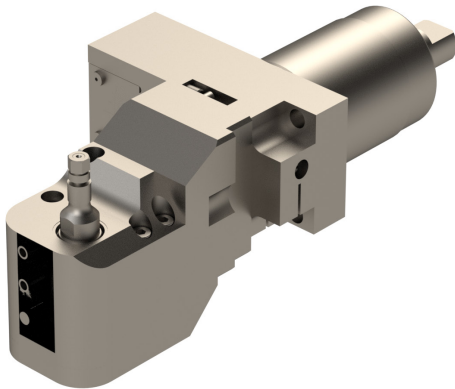
Notes

The TSUGAMI1-PCR base and LSH-050 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 8-12mm max.



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TSUGAMI1-LSH-135



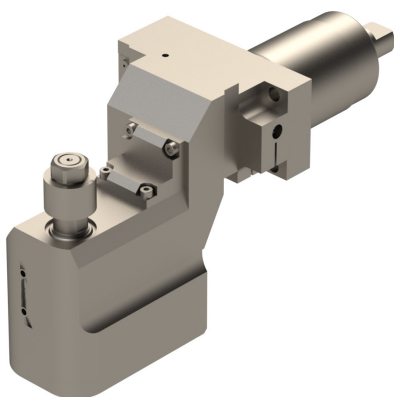
Ø	3.5
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and LSH-135 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 8-12mm max.



TSUGAMI1-LSH-180



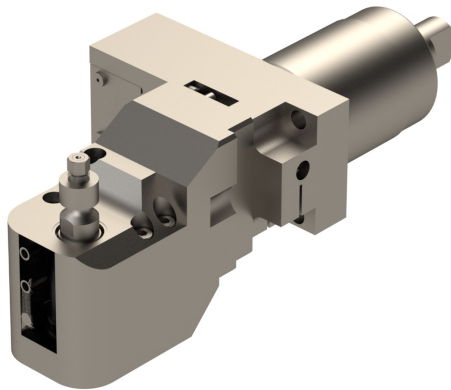
Ø	8
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and LSH-180 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 12mm max.



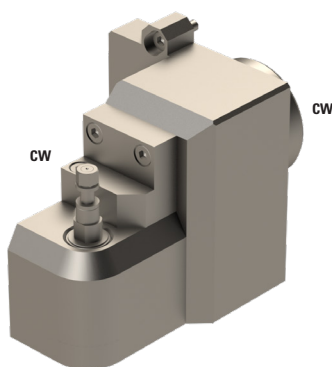
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TSUGAMI1-LSH-235

Ø	3.5
⚙️	1:1
RPM max.	6'000
Position	T01
Machines Types	BO7-BO12-BO20 S205-S206

Notes

The TSUGAMI1-PCR base and LSH-235 head are together on this tool.
Possibility to order them individually.
Adjustable : -3...+10°
Width of mill cutter : 8mm max.

**P03-GSH-135-L**

⚙️	3.5
⚙️	1:1
RPM max.	8'000
Position	-
Machines Types	P034H

Notes

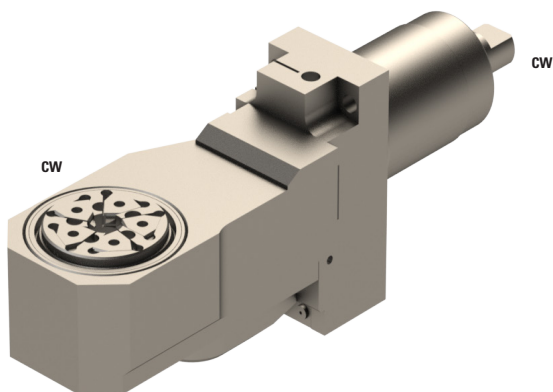
Adjustable $\pm 2.5^\circ$
Diameter of the mill : $\varnothing$ 8-10mm
Width of mill cutter : 4-6mm
This tool can only be used with the TSUGAMI base 0400-BU000-01.



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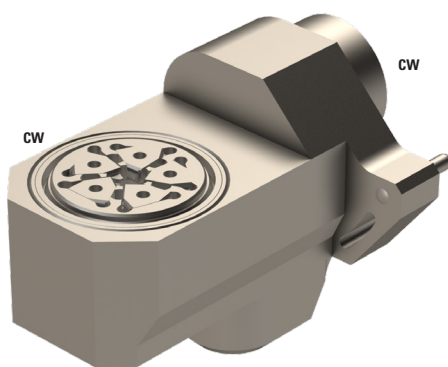
WHIRLING TOOLS TSUGAMI.

TSUGAMI1-GSW-220

Ø	-
⚙️	1:1
RPM max.	8'000
Position	Linear slide
Machines Types	S205, S206

Notes

Adjustable $\pm 20^\circ$
 The TSUGAMI1-PCR base and GSW-220 head are together on this tool.
 Thread whirling ring not included!
 W03040511111 - SCHWANOG Thread whirling ring
 Z=5 Ø4 mm
 W03060511112 - SCHWANOG Thread whirling ring
 Z=5 Ø6 mm
 W02060511111 - GLOOR Thread whirling ring
 Z=5 Ø6 mm
 W04060511111 - UTILIS Thread whirling ring
 Z=5 Ø6 mm

**P03-GSW-220**

⚙️	-
⚙️	1:1
RPM max.	8'000
Position	-
Machines Types	P034H

Notes

Adjustable 0° - 20° / This tool can only be used with the TSUGAMI base 0400-BU000-01.

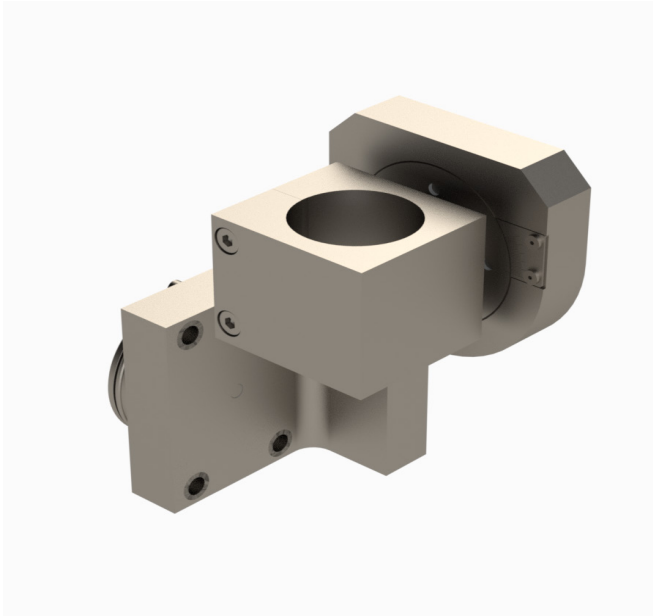
Thread whirling ring not included!
 ADDITIONAL ARTICLES :
 W03040511111 / SCHWANOG Thread whirling ring
 Z=5 Ø4 mm
 W03060511112 / SCHWANOG Thread whirling ring
 Z=5 Ø6 mm
 W02060511111 / GLOOR Thread whirling ring
 Z=5 Ø6 mm - max. inclination caution = 10°
 W04060511111 UTILIS Thread whirling ring
 Z=5 Ø6 mm



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STATICS TOOLS TSUGAMI.

B026-BDF-HF30

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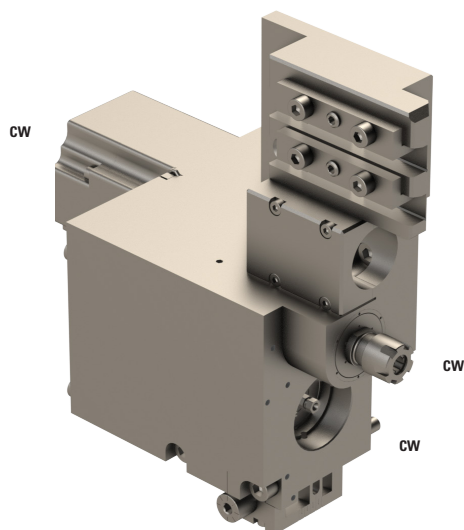
RPM max.	-
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Position	T31-T34
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Machines Types	BO38
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Notes

Fix tool with angle adjustment
For spindle Nakanishi EM30-S6000
Rear spindle Tsugami BO386L

0400-BU000-01

	ER11
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	1:2
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RPM max.	16'000
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Position	Linear block
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Machines Types	P034H
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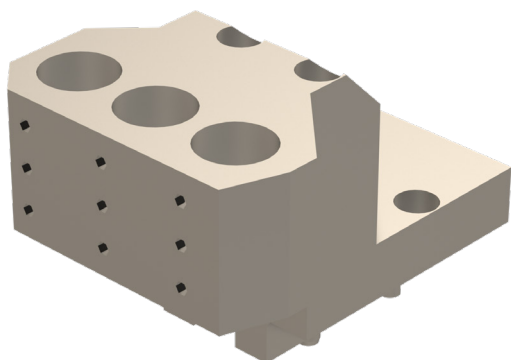
Notes

Original main block is to replace by this tool. To adjust the offset please contact your local TSUGAMI dealer.
Tool N°01 cutter carrier 8mm x 8mm
Tool N°02 cutter carrier 8mm x 8mm
Tool N°03 high frequency Ø25
Tool N°04 in ER11 with RPM 16'000.
Tool N°05 is a modular quick change for different operation.



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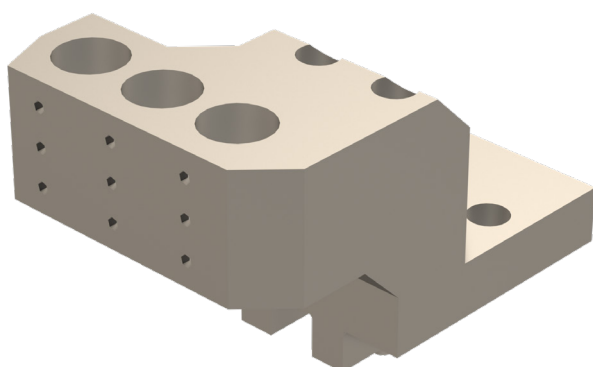
P03-GDF-416



	3xØ16
	-
RPM max.	-
Position	T11-T15
Machines Types	P034H
Notes	For the P03-GTF-018 holder



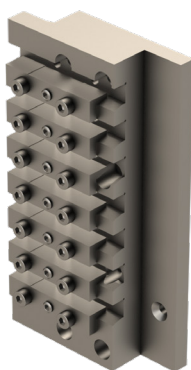
P03-GDF-516



	3xØ16
	-
RPM max.	-
Position	T01-T02/T13-T17
Machines Types	P034H
Notes	Reversible



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P03-GTF-018

7x(8x8)

RPM max.

-

Position

Rear tool post

Machines Types

P034H

Notes

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Visit us online :
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PCM Willen SA

Route du Grammont 101
1844 Villeneuve
Switzerland

Tél. +41 (0)21 967 33 66
Fax: +41 (0)21 960 38 95