



HIGH FREQUENCY
AC SPINDLE MOTOR

COLLET TYPE
MOTOR

コレットタイプ

AUTO TOOL
CHANGE TYPE

自動工具交換タイプ

CIRCULAR
SAW MOTOR

丸鋸モーター

BUILT-IN
MOTOR

ビルトインモーター

CUSTOM ORDER
MOTOR DESIGN

モーターの注文製作

Company profile



We established in 1968 in Shizuoka and began developing special induction motors. With a long history in high-frequency motors, we started manufacturing them in 1979, even before inverter technology was grown. Since then, through our continuous effort to produce high speed and high precision and advancements in inverter and bearing technology, we have improved our products. As a result, we have received numerous achievements and recognition from users worldwide.

Sales department

We are expanding our business worldwide.
Our network provides technical support to overseas clients.



Factory

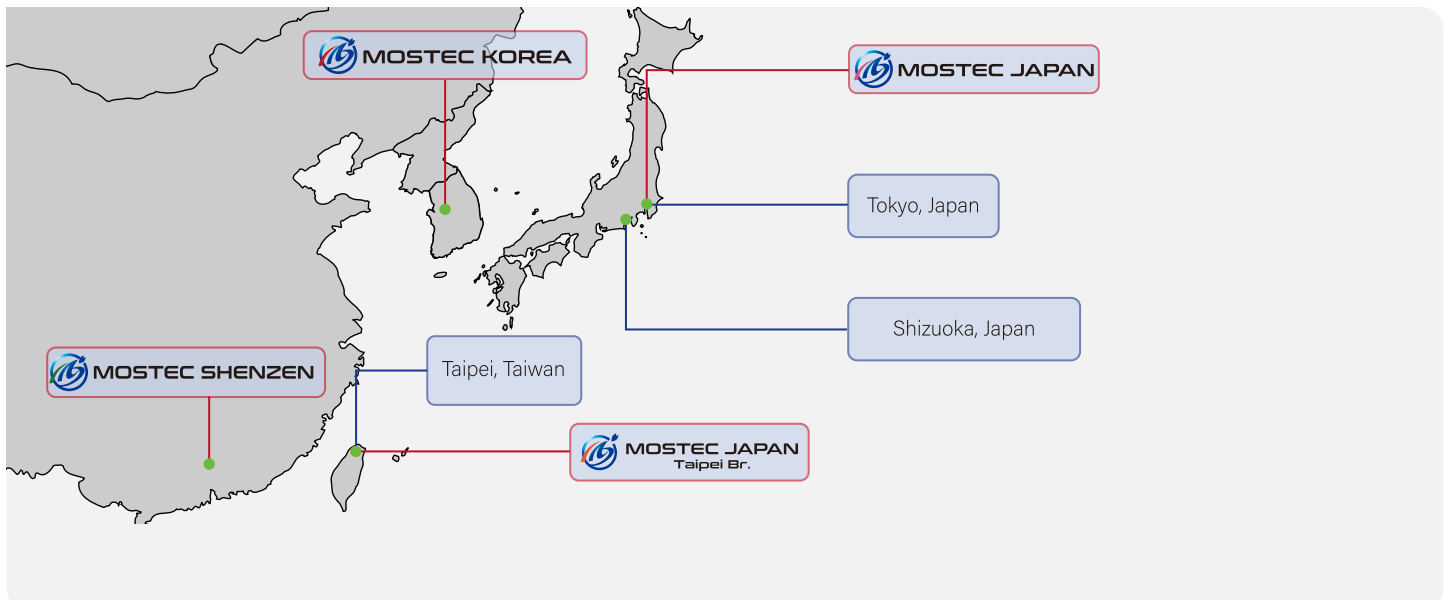


Head office/Shizuoka sales dept.



Tokyo sales dept.

Oversea department & Group companies



Products

We produce various types of spindle motors, which consist of an induction motor and shaft. Using our motors gives advantages, such as machine compactness, enhance accuracy, and reduce costs to you. We are one of the few manufacturers capable of producing high-speed, high-precision motors, from coil design to production.



Collet type

▶ P.3~P.4

Collet type for processing such as grooving, drilling, milling, and chamfering.

The chucking range of the collet chuck is from $\phi 0.5$ to $\phi 34$. Depending on the model, commercially available tools (such as ALPS tools) can be used.

We can also customize the shaft end based on your specifications.



ATC type

▶ P.5~P.7

Auto Tool Change type for machining-center, multiple-axis router and etc.

BT-type and HSK-type are available.

The output range is from 0.2kW to 22kW.

The maximum rotation speed can be increased to 80,000rpm.



Special type

▶ P.8~P.9

Special types for processing such as LCD Glass, PCB, Automotive parts, and for special purpose for internal grinder, mix-grinder machines, and various testing machines.

Develop and manufacture products based on your requirements.



Circular saw motor

▶ P.10~P.11

For cutting, sewing, and polishing of wood, resin, and light metal.

By driving inverter, the rotation speed can be increased to 6,000 rpm.

Output, Voltage, Rotation speed can be customized according to request.



Boring motor

▶ P.12

For boring of wood, resin, metal.

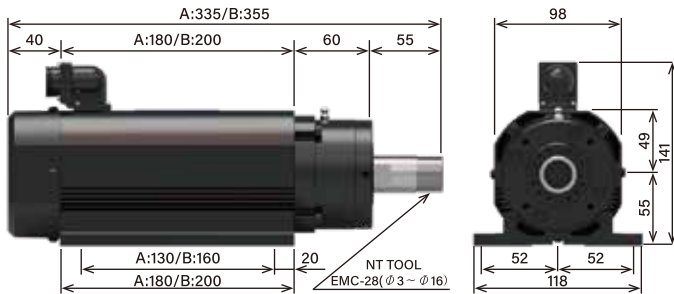
Output, Voltage, Shaft-end can be customized according to request.

Collet type

High-frequency spindle motor



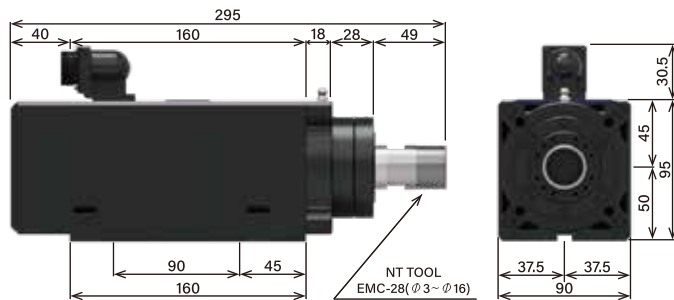
S235 series



※The dimensions are subject to change depending on the model.

	S235A	S235B
Output	2.2kW	3.7kW
Poles	2P	2P
R.P.M	18,000rpm	18,000rpm
Torque	1.17N·m	1.96N·m
Cooling	TEFC	TEFC
Lubrication	Grease	Grease
Shaft-Runout	0.005mm	0.005mm
Vibration	V5(under 5 μ m)	V5(under 5 μ m)

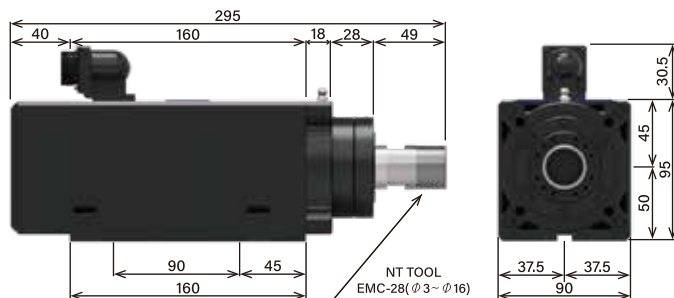
S238 series



※The dimensions are subject to change depending on the model.

	S238A	S238B	S238C
Output	0.75kW	1.5kW	2.2kW
Poles	2P	2P	2P
R.P.M	18,000rpm	18,000rpm	18,000rpm
Torque	0.4N·m	0.8N·m	1.17N·m
Cooling	TEFC	TEFC	TEFC
Lubrication	Grease	Grease	Grease
Shaft-Runout	0.005mm	0.005mm	0.005mm
Vibration	V5(under 5 μ m)	V5(under 5 μ m)	V5(under 5 μ m)

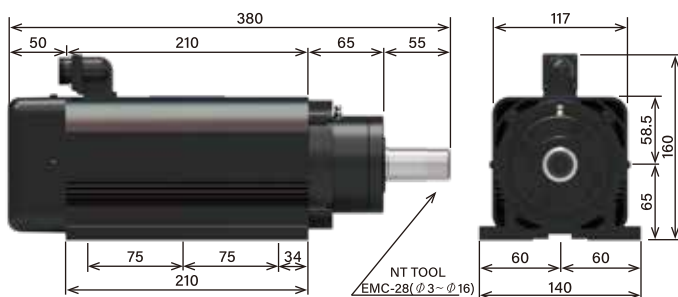
S238H series



※The dimensions are subject to change depending on the model.

	S238AH	S238BH	S238CH
Output	0.75kW	1.5kW	2.2kW
Poles	2P	2P	2P
R.P.M	30,000rpm	30,000rpm	30,000rpm
Torque	0.24N·m	0.48N·m	0.7N·m
Cooling	TEFC	TEFC	TEFC
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.005mm	0.005mm	0.005mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)	V3(under 3 μ m)

S239 series



※The dimensions are subject to change depending on the model.

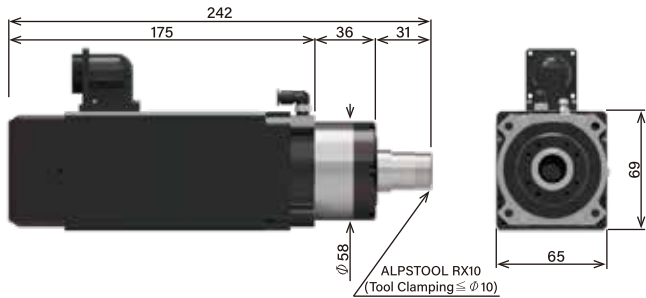
	S239B
Output	3.7kW
Poles	2P
R.P.M	18,000rpm
Torque	2.45N·m
Cooling	TEFC
Lubrication	Grease
Shaft-Runout	0.005mm
Vibration	V5(under 5 μ m)

Collet type

High-frequency spindle motor



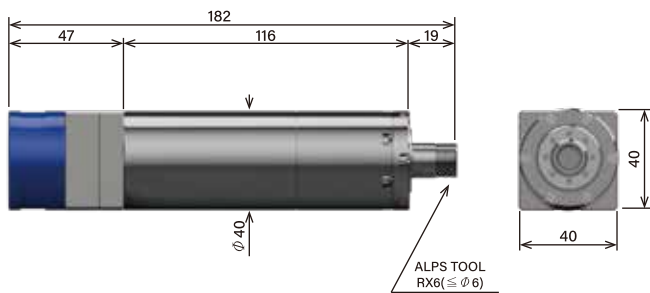
S251 series



※The dimensions are subject to change depending on the model.

	S251A	S251B
Output	0.5kW	0.75kW
Poles	2P	2P
R.P.M	18,000rpm	30,000rpm
Torque	0.27N·m	0.24N·m
Cooling	TENV	TENV
Lubrication	Grease	Grease
Shaft-Runout	0.005mm	0.005mm
Vibration	V5(under 5 μ m)	V5(under 5 μ m)

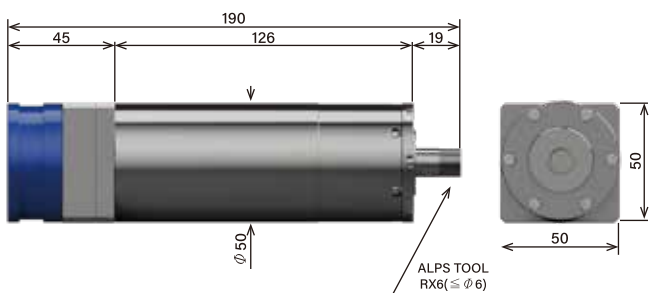
S252 series



※The dimensions are subject to change depending on the model.

	S252A
Output	0.3kW
Poles	2P
R.P.M	40,000rpm
Torque	0.07N·m
Cooling	Air
Lubrication	Sealed type
Shaft-Runout	0.002mm
Vibration	V3(under 3 μ m)

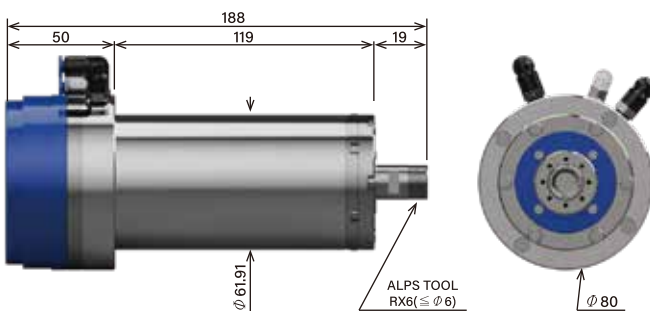
S255 series



※The dimensions are subject to change depending on the model.

	S255A	S255B
Output	0.4kW	0.25kW
Poles	2P	2P
R.P.M	40,000rpm	60,000rpm
Torque	0.1N·m	0.004N·m
Cooling	Air	Air
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.002mm	0.002mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)

S262 series



※The dimensions are subject to change depending on the model.

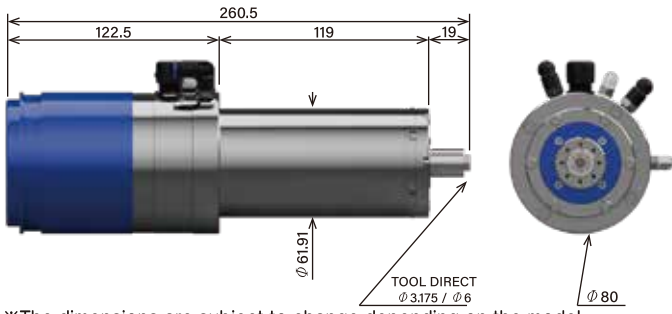
	S262A	S262B	S262H
Output	0.8kW	1.2kW	1.2kW
Poles	2P	2P	2P
R.P.M	40,000rpm	60,000rpm	80,000rpm
Torque	0.19N·m	0.19N·m	0.14N·m
Cooling	Water	Water	Water
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.002mm	0.002mm	0.002mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)	V3(under 3 μ m)

Auto Tool Change type

PCB · Plastic · Resin · Aluminum processing



S262EX series

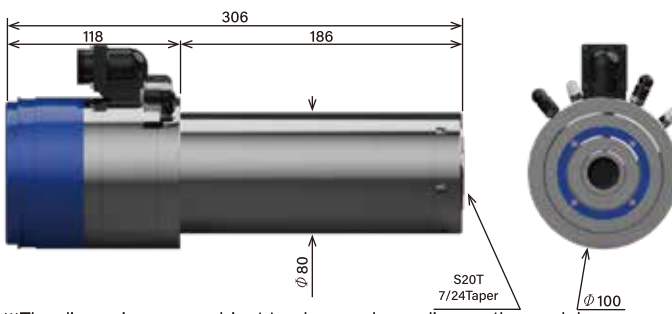


※The dimensions are subject to change depending on the model.

S262EX

Output	1.5kW
Poles	2P
R.P.M	60,000rpm
Torque	0.24N·m
Cooling	Water
Lubrication	Sealed type
Shaft-Runout	Test bar 20mm/5mm
Vibration	V3(under $3\mu\text{m}$)

S280EX series

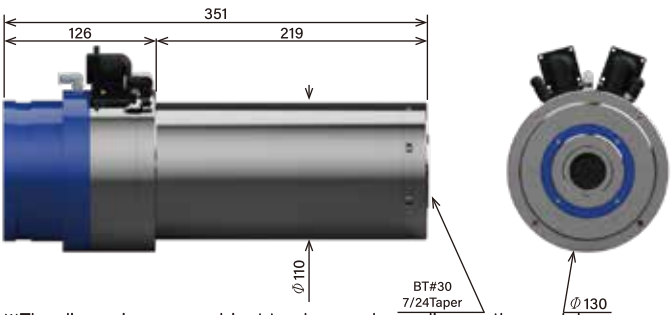


※The dimensions are subject to change depending on the model.

S280EX20

Output	3kW
Poles	2P
R.P.M	40,000rpm
Torque	0.72N·m
Cooling	Water
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under $3\mu\text{m}$)

S110EX series

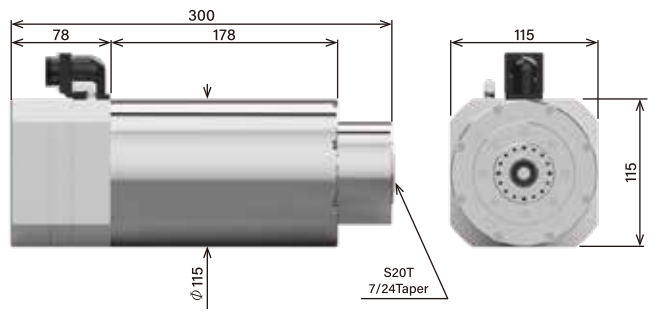


※The dimensions are subject to change depending on the model.

S110EX30A S110EX30B S110EX30H

Output	3.7kW	0.75kW	3.7kW
Poles	2P	2P	2P
R.P.M	18,000rpm	12,000rpm	30,000rpm
Torque	1.96N·m	0.99N·m	1.18N·m
Cooling	Water	Water	Water
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.003mm	0.003mm	0.003mm
Vibration	V3(under $3\mu\text{m}$)	V3(under $3\mu\text{m}$)	V3(under $3\mu\text{m}$)

S271EX series



※The dimensions are subject to change depending on the model.

S271EX20A S271EX20B S271EX20C

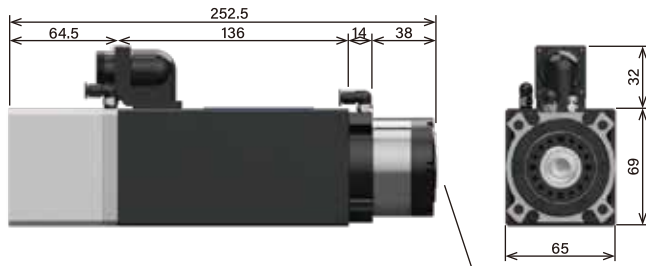
Output	0.75kW	1.5kW	1kW
Poles	2P	2P	2P
R.P.M	18,000rpm	18,000rpm	9,000rpm
Torque	0.4N·m	0.8N·m	1.30-1.06N·m
Cooling	Air	Air	Air
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.003mm	0.003mm	0.003mm
Vibration	V3(under $3\mu\text{m}$)	V3(under $3\mu\text{m}$)	V3(under $3\mu\text{m}$)

Auto Tool Change type

Lightweight ATC motor



S251EX15S

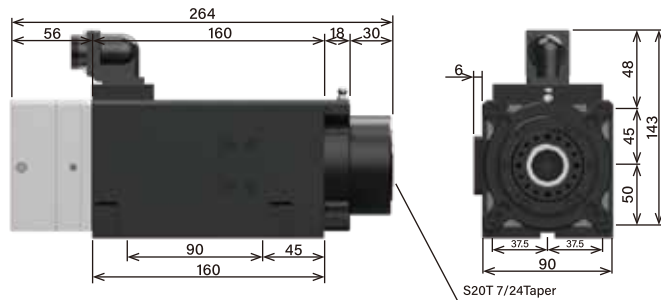


※The dimensions are subject to change depending on the model.

S251EX15S

Output	0.75kW
Poles	2P
R.P.M	30,000rpm
Torque	0.24N·m
Cooling	Air
Lubrication	Grease
Shaft-Runout	0.005mm
Vibration	V3(under 3 μ m)

S238EX20S

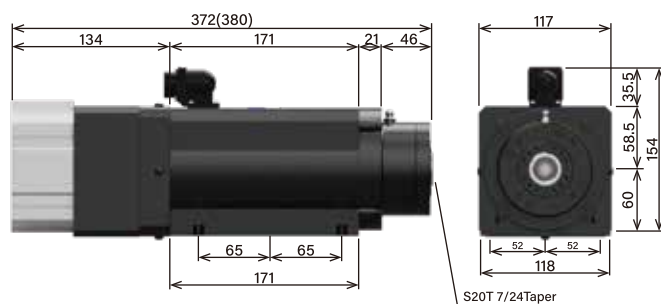


※The dimensions are subject to change depending on the model.

S238EX20S

Output	1.5kW
Poles	2P
R.P.M	20,000rpm
Torque	18,000rpm-0.8N·m / 20,000rpm-0.7N·m
Cooling	Air
Lubrication	Grease
Shaft-Runout	0.005mm
Vibration	V3(under 3 μ m)

S239EX20S

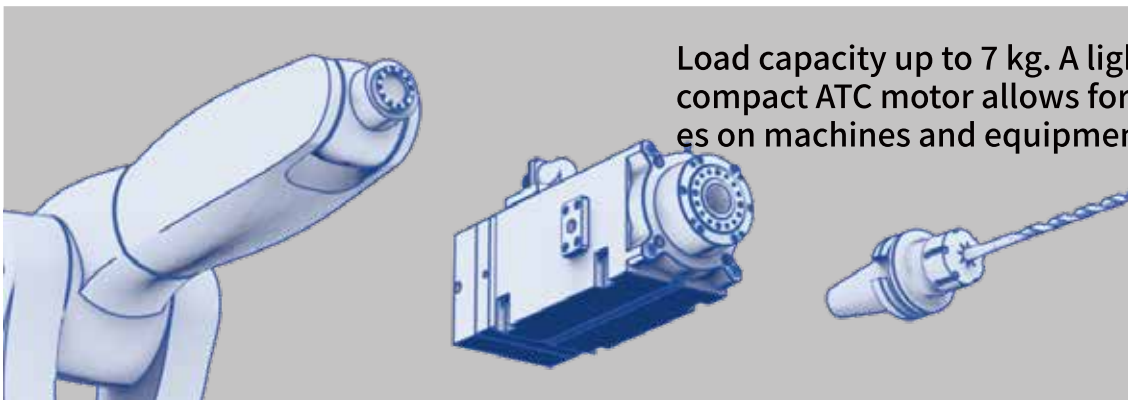


※The dimensions are subject to change depending on the model.

S239EX20S

Output	2.2kW(S1) / 3.7kW(S6)
Poles	2P
R.P.M	18,000rpm
Torque	S1-1.17N·m / S6-1.96N·m
Cooling	Air
Lubrication	Grease
Shaft-Runout	0.005mm
Vibration	V5(under 5 μ m)

Load capacity up to 7 kg. A lightweight and compact ATC motor allows for easy tool changes on machines and equipment.

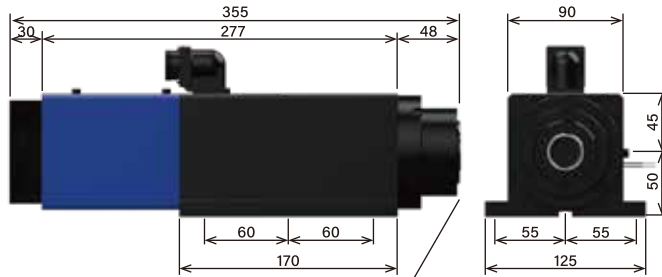


Auto Tool Change type

Wood · Metal · CFRP processing



S238EX series

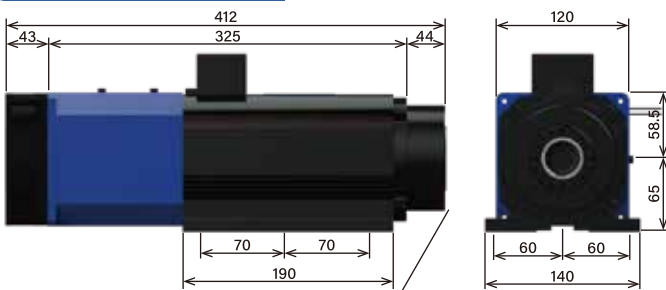


※The dimensions are subject to change depending on the model.

EX15: 15T 7/24Taper
EX20: S20T 7/24Taper
EX30: BT30 7/24Taper

	S238EX15	S238EX20	S238EX30
Output	1.5kW	2.2kW	2.2kW
Poles	2P	2P	2P
R.P.M	18,000rpm	18,000rpm	18,000rpm
Torque	0.8N·m	1.17N·m	1.17N·m
Cooling	DC-Fan	DC-Fan	DC-Fan
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.003mm	0.003mm	0.003mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)	V3(under 3 μ m)

S239EX series

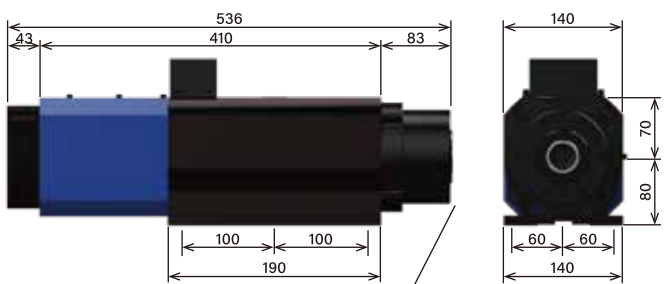


※The dimensions are subject to change depending on the model.

BT30 7/24Taper

	S239EX30
Output	3.7kW
Poles	2P
R.P.M	24,000rpm
Torque	1.47N·m
Cooling	DC-Fan
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

S247 series

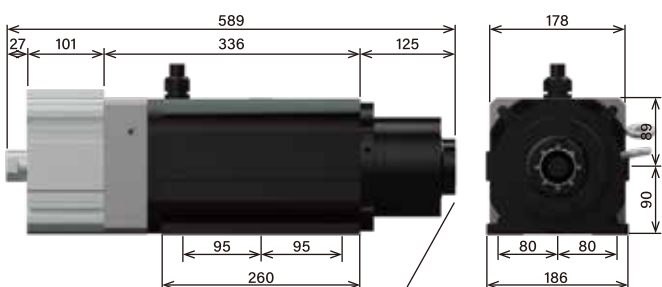


※The dimensions are subject to change depending on the model.

BT30 7/24Taper

	S247A	S247B
Output	5.5kW	8-5.5kW
Poles	2P	2P
R.P.M	24,000rpm	10,000-20,000rpm
Torque	2.19N·m	7.64-2.62N·m
Cooling	DC-Fan	DC-Fan
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.003mm	0.003mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)

S275EX series



※The dimensions are subject to change depending on the model.

BT40 7/24Taper

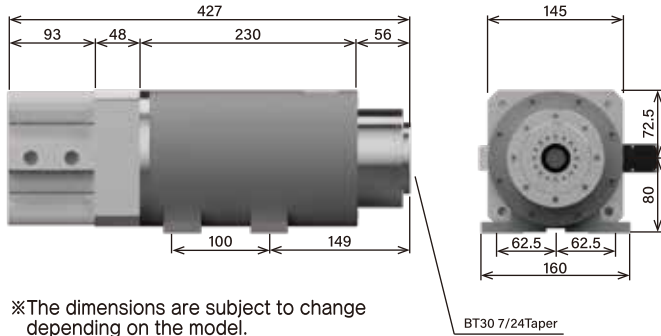
	S275EX40
Output	5.5kW
Poles	2P
R.P.M	13,000rpm
Torque	4.0N·m
Cooling	Air
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

Special type

LCD Glass processing



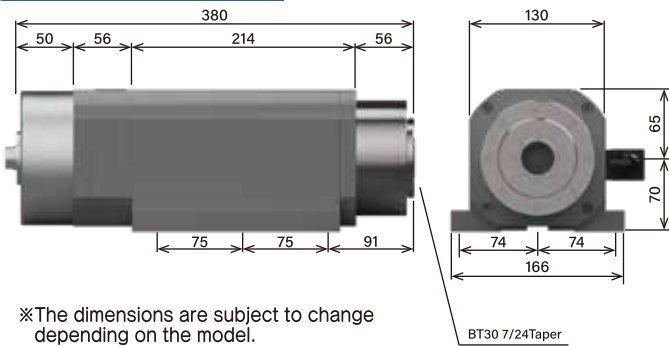
S125F series



※The dimensions are subject to change depending on the model.

S125F	
Output	1.5/1.25kW
Poles	2P
R.P.M	3,600/7,200rpm
Torque	3.97/1.65N·m
Cooling	Air
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

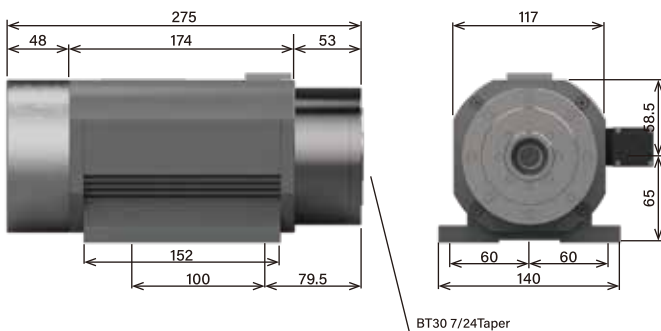
S125T series



※The dimensions are subject to change depending on the model.

	S125TA	S125TB	S125TC
Output	1.5kW	0.75kW	1.5kW
Poles	2P	2P	2P
R.P.M	10,000rpm	10,000rpm	15,000rpm
Torque	1.99-1.26N·m	1.00-0.63N·m	1.99-0.64N·m
Cooling	Air	Air	Air
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.003mm	0.003mm	0.003mm
Vibration	V3(under 3 μ m)	V3(under 3 μ m)	V3(under 3 μ m)

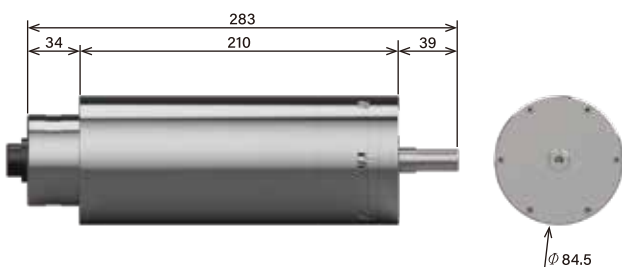
S153 series



※The dimensions are subject to change depending on the model.

S153A	
Output	0.4/0.3kW
Poles	4P
R.P.M	3,000/6,000rpm
Torque	1.27/0.48N·m
Cooling	TENV
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

S216 series



※The dimensions are subject to change depending on the model.

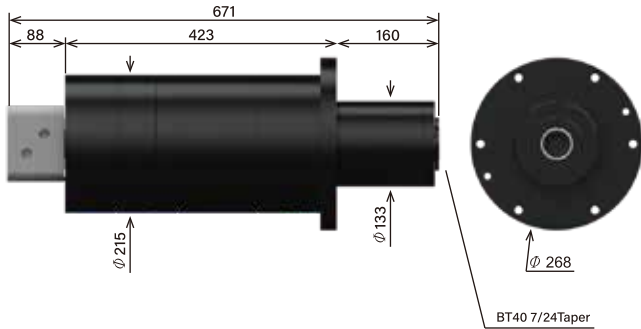
S216H	
Output	0.4kW
Poles	2P
R.P.M	21,600rpm
Torque	0.35/0.18N·m
Cooling	Air
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

Special type

Machining center · CNC Lathe · 5-Axis processing

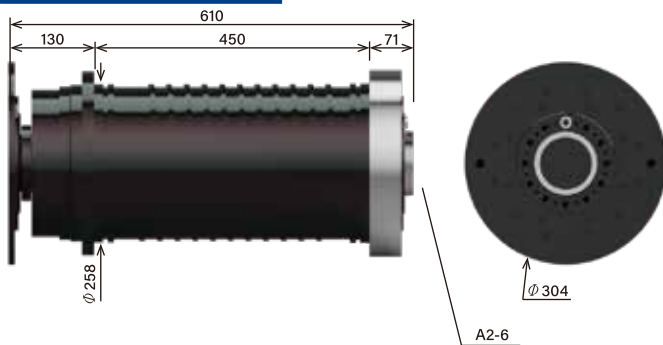


S206 series



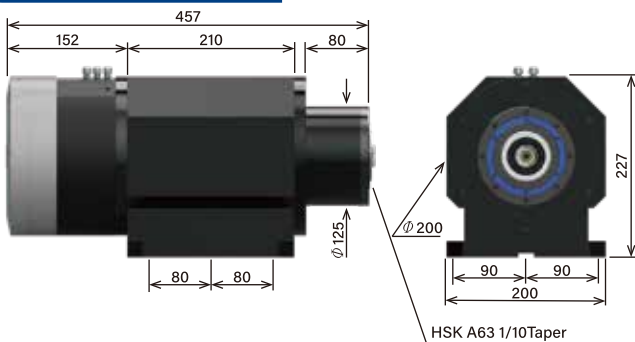
S206C	
Output	11kW
Poles	4P
R.P.M	7.5kW-20,000rpm / 11kW-7,500rpm
Torque	8.76-3.58N·m
Cooling	Oil
Lubrication	Oil-mist
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

S400 series



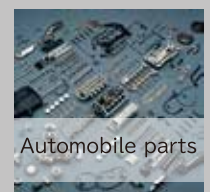
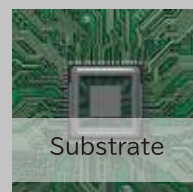
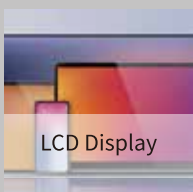
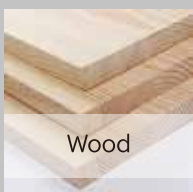
S400	
Output	15kW
Poles	8P
R.P.M	8kW-5,000rpm(Max.) / 15kW-1,350rpm(base)
Torque	123.7-111.4N·m(S1)
Cooling	Water
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

S311 series



S311EXA63	
Output	5.5kW
Poles	2P
R.P.M	5.5kW-4,800rpm / 4.5kW-9,000
Torque	10.9N·m/4.7N·m
Cooling	Air
Lubrication	Sealed type
Shaft-Runout	0.003mm
Vibration	V3(under 3 μ m)

Design and Manufacture of special motors for a wide range of purposes.



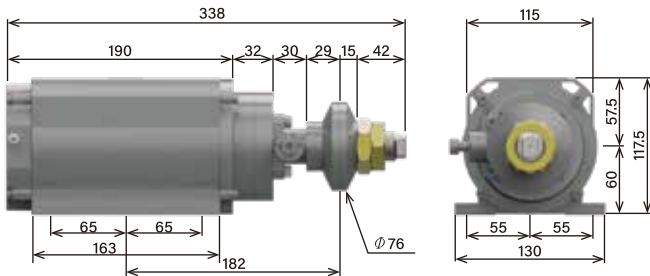
※There are many other products available beyond those listed in this catalog, so please feel free to contact us.

Circular saw motor

For wood cutting, buffing



S230 series

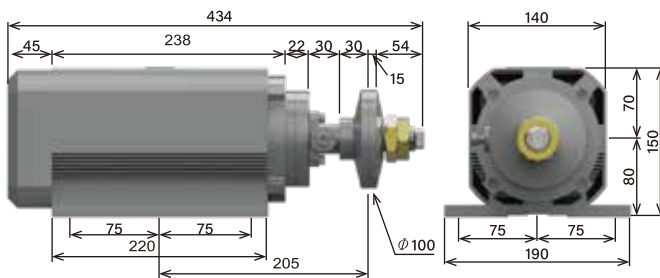


※The dimensions are subject to change depending on the model.

	S230A	S230B
Output	0.4kW	0.75kW
Poles	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm
Torque	1.06N·m	1.99N·m
Cooling	TENV	TENV
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.02mm	0.02mm
Flange-Runout	0.02mm	0.02mm

※max. 6,000rpm (drive by inverter)

S231 series

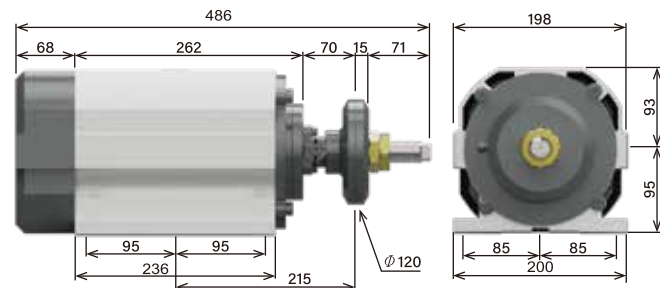


※The dimensions are subject to change depending on the model.

	S231A	S231B
Output	1.5kW	2.2kW
Poles	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm
Torque	3.98N·m	5.84N·m
Cooling	TEFC	TEFC
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.02mm	0.02mm
Flange-Runout	0.02mm	0.02mm

※max. 6,000rpm (drive by inverter)

S232 series

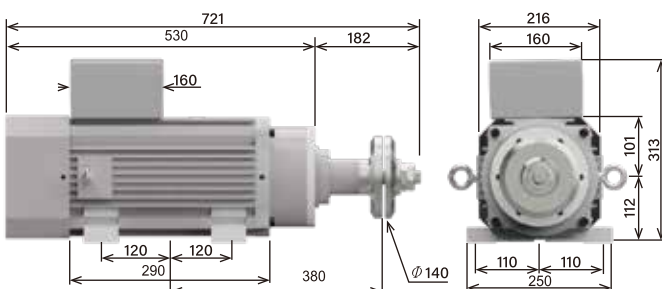


※The dimensions are subject to change depending on the model.

	S232A	S232B	S232C
Output	3.7kW	5.5kW	7.5kW
Poles	2P	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm	3,000/3,600rpm
Torque	9.81N·m	14.6N·m	19.9N·m
Cooling	TEFC	TEFC	TEFC
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.02mm	0.02mm	0.02mm
Flange-Runout	0.02mm	0.02mm	0.02mm

※max. 6,000rpm (drive by inverter)

S322M series



※The dimensions are subject to change depending on the model.

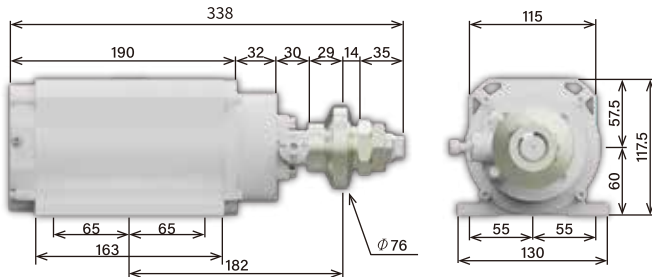
	S322MB2	S322MB4
Output	15kW/12kW	7.5kW/6.0kW
Poles	2P	4P
R.P.M	3,000/3,600rpm	3,000/3,600rpm
Torque	40N·m/19N·m	40N·m/19N·m
Cooling	TEFC	TEFC
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.02mm	0.02mm
Flange-Runout	0.02mm	0.02mm

Precision Circular saw motor

For Wood cutting, buffing



S230M series

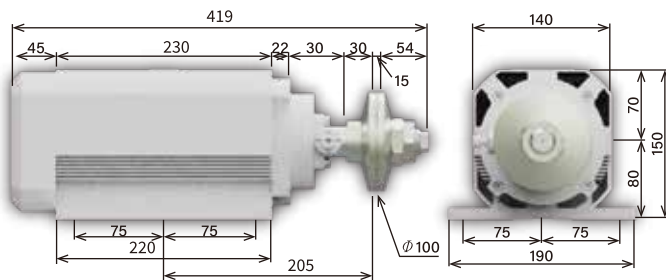


※The dimensions are subject to change depending on the model.

	S230MA	S230MB
Output	0.4kW	0.75kW
Poles	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm
Torque	1.06N·m	1.99N·m
Cooling	TENV	TENV
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.01mm	0.01mm
Flange-Runout	0.01mm	0.01mm

※max. 6,000rpm (drive by inverter)

S231M series

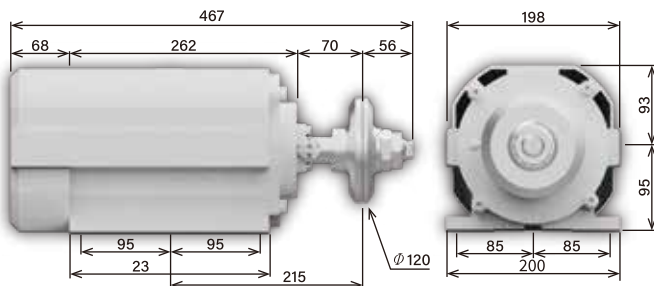


※The dimensions are subject to change depending on the model.

	S231MA	S231MB
Output	1.5kW	2.2kW
Poles	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm
Torque	3.98N·m	5.84N·m
Cooling	TEFC	TEFC
Lubrication	Sealed type	Sealed type
Shaft-Runout	0.01mm	0.01mm
Flange-Runout	0.01mm	0.01mm

※max. 6,000rpm (drive by inverter)

S232M series



※The dimensions are subject to change depending on the model.

	S232MA	S232MB	S232MC
Output	3.7kW	5.5kW	7.5kW
Poles	2P	2P	2P
R.P.M	3,000/3,600rpm	3,000/3,600rpm	3,000/3,600rpm
Torque	9.81N·m	14.6N·m	19.9N·m
Cooling	TEFC	TEFC	TEFC
Lubrication	Sealed type	Sealed type	Sealed type
Shaft-Runout	0.01mm	0.01mm	0.01mm
Flange-Runout	0.01mm	0.01mm	0.01mm

※max. 6,000rpm (drive by inverter)

High Rigidity / High Precision



※Rigidity increased by 50-100% compared to standard circular saw motors
 ※Runout accuracy of less than 0.01 mm

Easy Flange Replacement



※Flange diameter can be changed
 ※Tolerance of screw for tightening nuts is grade 5H

Improved Dust Resistance



※Labyrinth structure for anti-dust.

Increased Stopper Strength



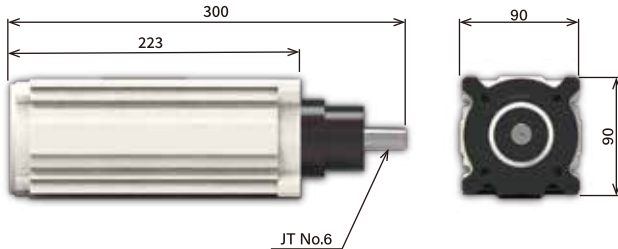
※Approximately 7 times stronger compared to standard circular saw motors
 ※Load capacity: 431.5 N

Boring motor

Boring process for wood, metal, resin



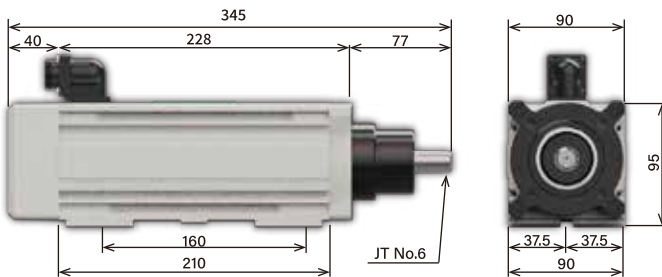
S225A series



※The dimensions are subject to change depending on the model.

S225A	
Output	0.4kW
Poles	2P
R.P.M	3,000/3,600rpm
Torque	1.06N·m
Cooling	TENV
Lubrication	Sealed type
Shaft-Runout	0.01mm
Vibration	V5(under 5 μ m)

S225B series



※The dimensions are subject to change depending on the model.

S225B	
Output	0.75kW
Poles	2P
R.P.M	3,000/3,600rpm
Torque	1.99N·m
Cooling	TEFC
Lubrication	Sealed type
Shaft-Runout	0.01mm
Vibration	V5(under 5 μ m)

Built-in motor

Rotor & Stator coil

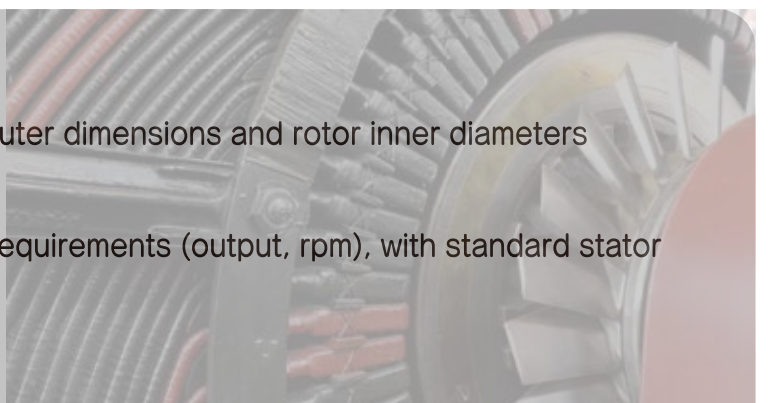


Sales for the stator coil and rotor only.

We also provide finishing services for stator outer dimensions and rotor inner diameters

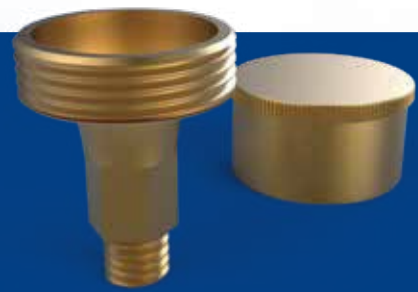
Our company performs coil winding manually.

We can manufacture coils according to your requirements (output, rpm), with standard stator outer diameters ranging from ϕ 60 to ϕ 225.



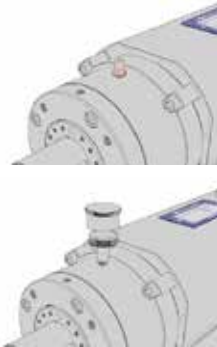
Option

M6 grease cup · Base plate



M6 Grease-cup

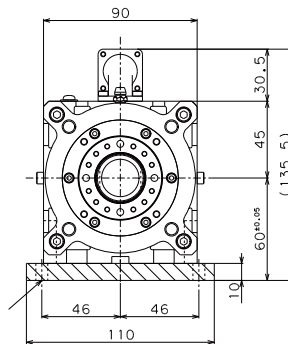
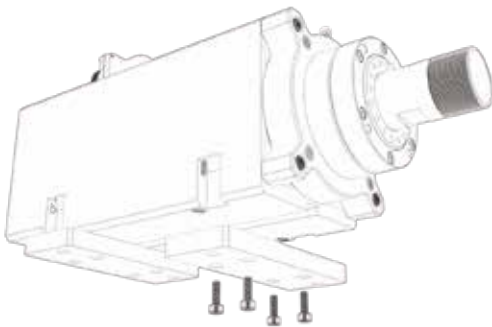
Easy to feed the grease with M6 grease cup.



Remove the grease nipple from the motor and screw the M6 grease cup into there.

Fill the cup with 3CC of grease. Screw and push the cup in fully (10.5 rotation), it feed 2 CC of grease into bearing (1 CC of grease remain in the cup).

Base Plate



It is possible to replace conventional models for new model by installing base plate.

Accessories

Inverter · Tool · etc.

● Inverter

※ Parameter settings are also available.

● Tools

※ Collet, BT-Holder, HSK-Holder

● Oil-mist device

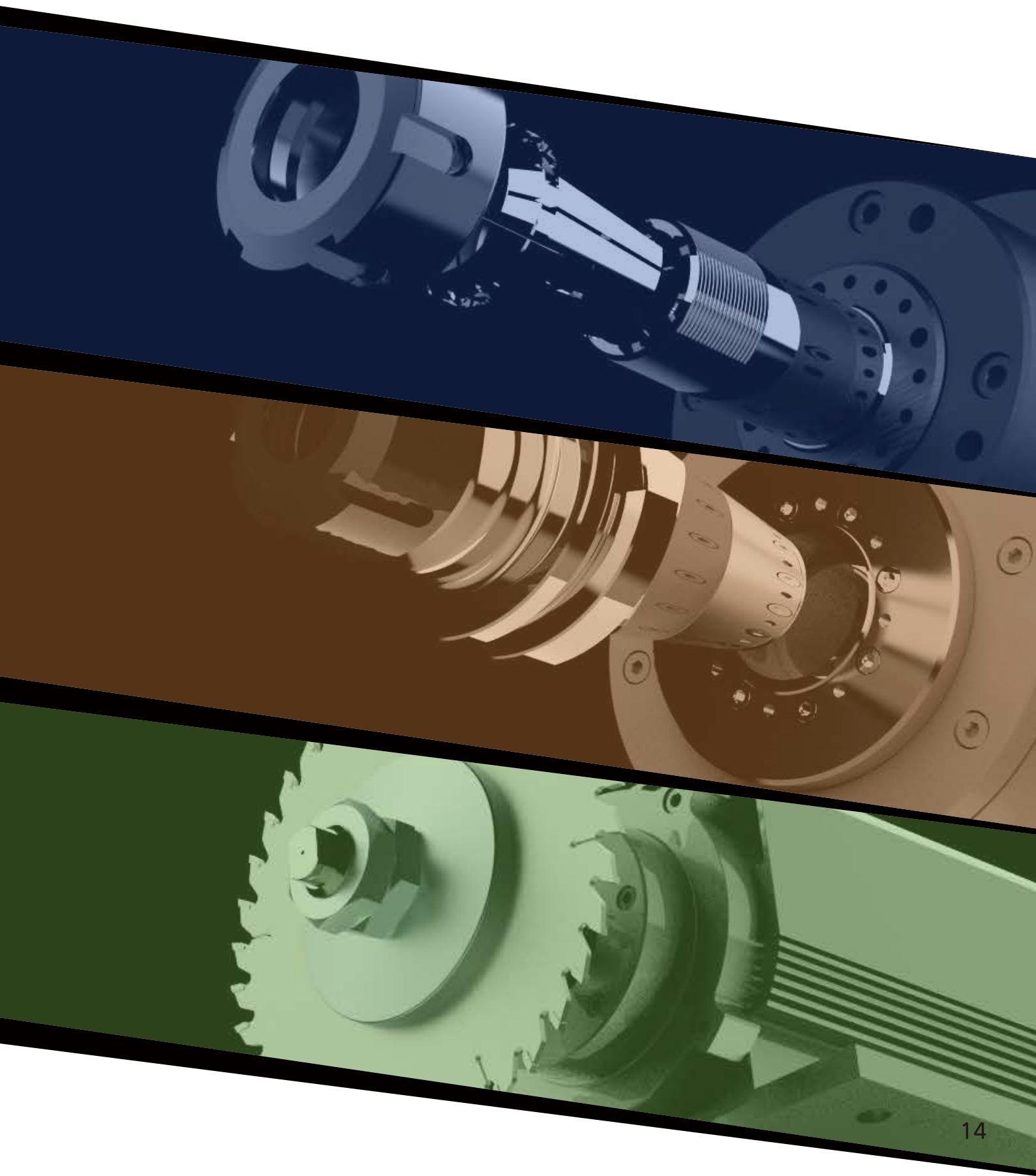
● Oil-cooling device



We manufacture products customize to user' s requests. There are many other products available beyond those listed in this catalog, so please feel free to contact us.
For inquiries regarding products, please consider and provide the following information in advance:

- 1.Motor output
- 2.Rotation speed
- 3.Shaft end shape
- 4.Motor mounting method
- 5.Intended use (load conditions)
- 6.Operating environment etc.

For inquiries regarding repair, please contact our sales department.





SHIN-OH MOTOR



SHIN-OH MOTOR

進桜電機株式会社 SHIN-OH ELECTRIC Co.,Ltd.

本社・工場 〒411-0934 静岡県駿東郡長泉町下長窪989-1
TEL: 055-986-7281 FAX: 055-986-4059

静岡営業所 〒411-0934 静岡県駿東郡長泉町下長窪989-1
TEL: 055-957-4471 FAX: 055-986-4059

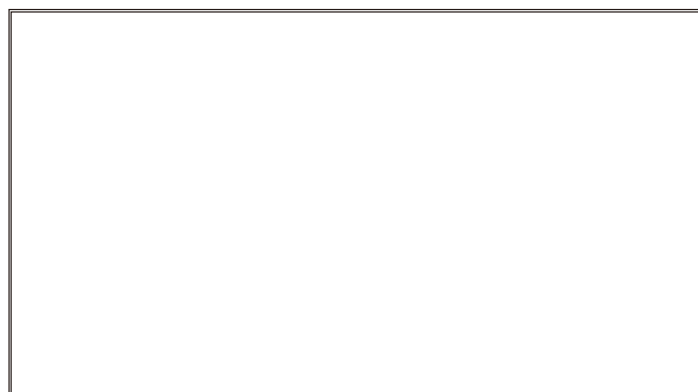
東京営業所 〒106-0043 東京都港区麻布長坂町1麻布パークサイドビル303
TEL: 03-6807-4480 FAX: 03-6809-6182

国内販売代理店

モステックジャパン株式会社

〒106-0043 東京都港区麻布長坂町1麻布パークサイドビル303
TEL: 03-6809-3711 FAX: 03-6809-3701

取扱店



※The information (such as product appearance, specifications) in the catalog is subject to change without notice for product improvement purposes.

SHIN-OH ELECTRIC CO.,LTD.

<https://www.shinoh-motor.com>

e-mail : sales@shinoh-motor.com