

TAMAGAWA SEIKI CO., LTD. / TAMAGAWA TRADING CO., LTD.

Developing State-of-the-Art Technology in Anticipation of Society's Needs

Southern Japanease Alps

We always respond to our customers' global needs and help them find solutions with our technology.

In order to coexist and evolve with the Earth, technology must be kind to people and nature, and furthermore, have power to create the future.

We look to the wisdom of our predecessors, open our hearts and challenge ourselves to even greater technological development.

Ranging from technological development necessary for the space age, which has already begun, to technological development of everyday products, we will respond with flexible ideas and solid know-how.

Tenryu River

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TAMAGAWA SEIKI CO., LTD. Headquarters

Company Profile

TAMAGAWA SEIKI CO., LTD.

■Date of Establishment

March 3, 1938

Headquarters

1879 Oyasumi, lida, Nagano Pref. 395-8515 Japan

■Executive

Honorary Board Chairman Hiroyuki Hagimoto (Ph.D., in Mechanical Eng'g.)
Board Chairman & CEO Yasuo Hagimoto
President & COO Tadanori Matsuo
Senior Managing Director Hideo Kumagai (Ph.D., in Electrical Eng'g.)
Senior Managing Director Masashi Uryu
Managing Director Hiroshi Hagimoto
Managing Director Kazuyuki Miyazawa
Director Makoto Yamaguchi

Director Yuji Takeno Auditing Director Toshiaki Ito Auditing Director (Part time) Yusuke Kishimoto

Director Tadasu Takigawa

TAMAGAWA TRADING CO., LTD.

Executive

Honorary Board Chairman Hiroyuki Hagimoto
(Ph.D., in Mechanical Eng'g.)
Board Chairman & CEO Yasuo Hagimoto
President & COO Tadanori Matsuo
Managing Director Tadasu Takigawa
Director Masahiro Shiozawa
Auditing Director Toshiaki Ito
Auditing Director (Part time) Yusuke Kishimoto

■Main Products

Contract manufacturing, Sales and service of servo components (encoder, resolver, rate sensor, gyro, AC servomotor, LVDT etc.) motor driver, controller, robot, IMU, automatic control equipment and (bio) research reagents.

■Associated Banks

Sumitomo Mitsui Banking Corporation MUFG Bank, Ltd. Mizuho Bank, Ltd. THE HACHIJUNI BANK LTD.

■Group Company

Tamagawa Hightech Corporation
Tamagawa Microtep Co., Ltd.
Tamagawa Seiki Electronics Co., Ltd.
Tamagawa Logistics Co., Ltd.
TAMAGAWA MOTORTRONICS CO., LTD.
TAMAGAWA MOBILE EQUIPMENT CO., LTD.
TAMAGAWA AERO SYSTEMS CO., LTD.
Tamagawa Seiki Suzhou Co., Ltd.
Tamagawa Seiki Suzhou Co., Ltd.
Tamagawa Sky Precision Co., Ltd.
Tamagawa Parts Manufacturing Co., Ltd.
Tamagawa Europe GmbH
TAICANG TAMAGAWA TRADING CO., LTD.
TAMAGAWA VIETNAM CO., LTD.

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MOTORTRONICS

Motor (Sensor) Technology

Electronics Technology Precision Machinery Technology

"MOTORTRONICS" is a compound term derived from the words "motor", "electronics" and 'mechanics'.

Used as the generic name of Tamagawa Seiki products, the name indicates how we integrate advanced technologies of motors, sensors, electronics and precision machinery

Tamagawa Seiki applies the concept of MOTORTRONICS to the development and manufacture of all kinds of automated systems for Amusement Applications (AA), Car Applications (CA), Defense Applications (DA), Factory Applications (FA) and Science Applications (SA).





Electronics (Circuit) Technology

Driving Forward the Frontiers of Technology

Tamagawa Seiki is a leading manufacturer of 2-dimensional position/angle sensors, angle / angular velocity sensors in 3-dimensional space, and servo components.

Throughout its history, Tamagawa Seiki has succeeded in manufacturing products with the most accurate angular control possible

This attitude will continue, even if it takes more than 10 years to improve the accuracy by 1 digit.

(1arcsec) Tokyo-Kyoto (0.01arcsec) To Satellite



α : Angle	X : Distance equivalent to human height
10000 arcsec(2.8 degree)	35 m
1000 arcsec(0.28 degree)	350 m
100 arcsec(0.028 degree)	3.5 km
10 arcsec	35 km (Tokyo-Hachioji) (Iida-Ina)
1 arcsec	350 km (Tokyo-Kyoto)
0.1 arcsec	3500 km (Tokyo-Hanoi, Vietnam)

35000 km (to Synchronous Satellite)

Concept of Angles (angles given in the order of seconds)

0.01 arcsec

Business Summary

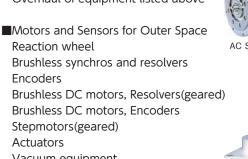
Tamagawa Seiki started its business form developing defense-related products. Sticking to the accuracy and quality of products with the highly reliable technology that we cultivated there, we are working on the development of new technologies and products.

Aviation, Space & Defense-Related Products

Main Products:

- Angular velocity sensors and systems
 Rate gyros(mechanical type)
 Gas rate sensors
 Fiber optical gyros
 Ring laser gyros
 MEMS gyros
 Inertial measurement equipment
 Attitude heading reference system
 Servo accelerometers
- Aviation instruments
 Torque, Servo motor,
 LVDT, RVDT,
 RVDT cluster, Resolver
 Power supply(Rectifier, AC/DC, DC/DC)
 Engine indicators and instruments
 Aircraft indicators and instruments
 Electric actuators and other instruments
 Pump
 Valve
 Surveillance Camera System

•Special instruments
S/D, D/S Signal converters
Rocket management systems(RMS)
Missile control devices
Surveillance Camera System
Slip ring
Optical measurement equipment
Position detectors
Trackballs
Throttle lever
Overhaul of equipment listed above







These products play an active role in 5 different application fields.



Defense Applications



Car Applications



Factory Applications



Amusement Applications



Science Applications

Servo Components



System Equipments



Quality Policy

Provide Products & Services that give Satisfaction to Customers "Each one promises Quality without the compromise."

- 1. We will obtain the latest information on quality and strive to improve quality.
- We will act with a renewed awareness of the fact that the quality of procured products is also within the scope of our company.
- 3. We will promote manufacturing in defined parts and processes.
- 4. When changing 4M, we will review and respond to the details.

Environmental Policy

"Each of us Save an Enriched Nature Environment"

- We achieve carbon neutrality through reduction of greenhouse gas emissions and effective use of resources in our business activity and throughout the life cycle of products and services.
- 2. We take on the challenge to develop next-generation technologies and resolve environmental issues.
- 3. We comply with environmental laws and regulations, control the effect of chemical substances, and protect eco-systems and biodiversity.
- 4. We go forward to improve our environmental performance through continuous improvement.
- 5. We cooperate with other companies and organizations to contribute to a sustainable development of community.

Tamagawa Network

Tamagawa Seiki has developed production and sales bases in different areas of Japan as well as in the world to respond flexibly to various customer needs.

Network in Japan



Headquarters / First Plant / Spacetronics Laboratory

Occupied area	138,200m²
Building space	29,400m ²



Second Plant / Sensortronics Laboratory / Motortronics Laboratory

Occupied area	47,800m²
Building space	23,300m ²

TAMAGAWA TRADING CO., LTD.

Headquarters



First Hachinohe Factory Occupied area 36,700m

Aomori Prefecture Hachinohe Plant

First Fukuchi Factory

Misawa Factory



Second Hachinohe Factory Motortronics Laboratory Occupied area 34,200m² Building space 16.400m2



Occupied area	27,400m ²
Building space	6,300m ²

Second Fukuchi Factory / Motortronics Laboratory



Occupied area	54,000m ²
Building space	20.300m ²

Misawa Factory



Occupied area	80,200m ²
Building space	5,700m²



Occupied area	80,200m ²
Building space	5,700m ²

Tokyo Office



Occupied area	2,300m ²
Building space	600m²

Third Plant

Occupied area	35,400m ²
Building space	11,300m ²

First Hachinohe Factory Second Hachinohe Factory Second Fukuchi Factory

Matsukawa Town, Nagano Prefecture Third Plant lida City.Nagano Prefecture Headquarters / First Plant / Second Plant / Nagano Office Office Osaka Office Nagoya Office Ota-ku, Tokyo Tokyo Office Fukuoka Office

TAMAGAWA SEIKI CO., LTD.

Headquarters: 1879 Ohyasumi, Iida, Nagano Pref. 395-8515 Japan PHONE: +81-265-21-1800 FAX: +81-265-21-1861

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TAMAGAWA VIETNAM CO., LTD

Song Khoai Industrial Park, Song Khoai commune, Quang Yen town, Quang Ninh province, Viet Nam

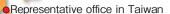
Global Network and Performance

EUROPE

Tamagawa Europe GmbH

Tamagawa Seiki Suzhou Co., Ltd. TAICANG TAMAGAWA TRADING CO., LTD.

TAMAGAWA VIETNAM CO., LTD.





nagawa Europe GmbH (Germany)

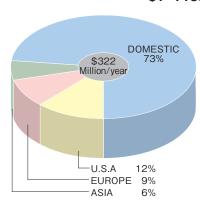


Tamagawa Seiki Suzhou Co., Ltd. (China)



TAMAGAWA VIETNAM CO., LTD. (VIETNAM)

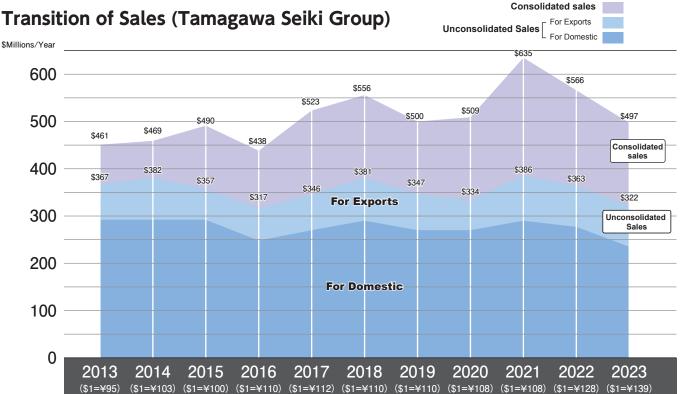
World' Market Ratio (2023) \$1=¥139



Sales Market (2023)



Transition of Sales (Tamagawa Seiki Group)





●URL https://www.tamagawa-seiki.com

