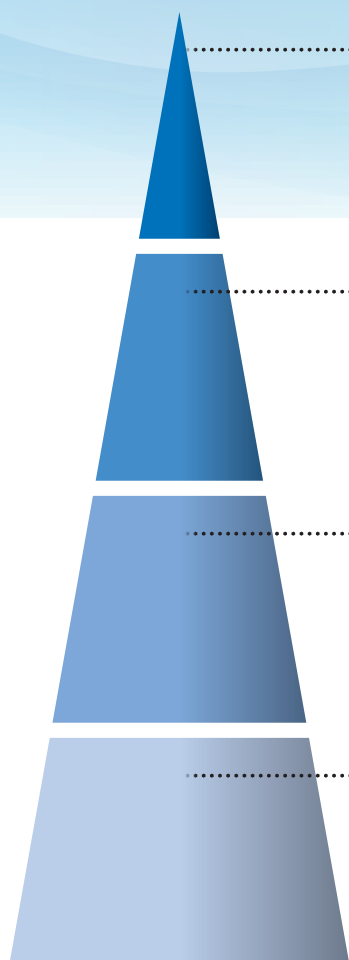




TAMAGAWA SEIKI CO., LTD. / TAMAGAWA TRADING CO., LTD.

TAMAGAWA Corporate Philosophy



Mission Our reason for being

Build tomorrow's world by "measuring" and "moving".

We as Tamagawa group challenge to boundless possibilities as a member of society.

Vision What we want to be

- **Beneficial Production** Connect technological pursuit and social needs, and provide products serving society.
- **A reliable company** Put our best effort for each customer to build long lasting and good relationship.
- **Living with community** Realize more attractive local community through company's sustainable development.

Value What we value

- **Empower through diversity** Be a "exciting" company gathering diverse people and challenging with own strength.
- **Respect for others** Elevate each other through dialogs, and build trustworthiness through gratitude to others.
- **With all five senses** Value on "Genchi Genbutu" principal to solve and improve issues.

Action How we behave?

- **Righteousness** Work with pride
- **Industrious** Act with own initiative
- **Progress** Make it even better

Company Profile

TAMAGAWA SEIKI CO., LTD.

■ Date of Establishment

March 3, 1938

■ Headquarters

1879 Oyasumi, Iida, 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

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

■ 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.
IIDA SHINKIN BANK

■ Group Company

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

Motortronics

Motor (Sensor) Technology

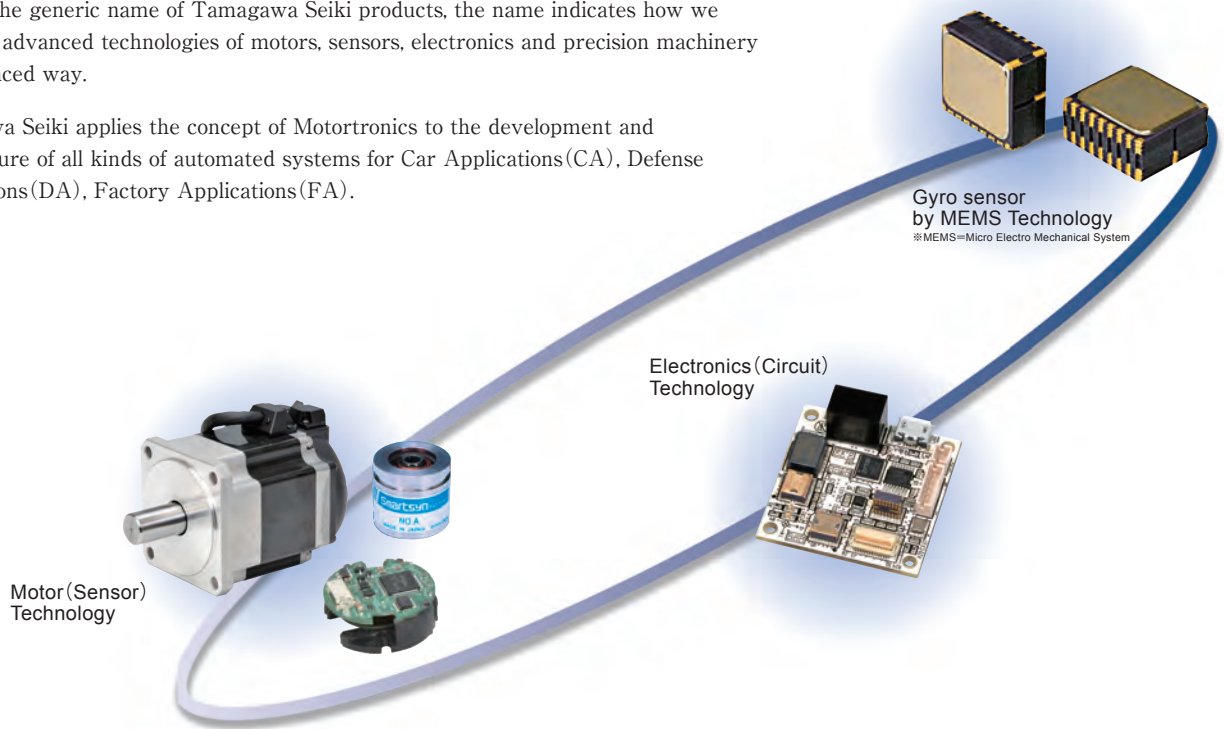
Electronics Technology

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 in a balanced way.

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



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 at the time.

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



35000km
(0.01arcsec)
To Satellite

350km
(1arcsec)
Tokyo - Kyoto

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

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)
0.01 arcsec	35000 km (to Synchronous Satellite)



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
- Motors and Sensors for Outer Space
 - Reaction wheel
 - Brushless synchros and resolvers
 - Encoders
 - Brushless DC motors, Resolvers(g geared)
 - Brushless DC motors, Encoders
 - Steptomotors(g geared)
 - Actuators
 - Vacuum equipment
 - Ground test equipment
 - Mechanical units for space instrum



These products play an active role in 3 different application fields.



Defense Applications



Car Applications



Factory Applications

Servo Components

Main Products:

AC servomotors
Step motors(2-phase / 5-phase)
Optical Rotary encoders
(Absolute / Incremental)
Magnetic encoders
LVDTs / RVDTs
Synchros and resolvers
Brushless resolver "Smartsyn"
VR type resolvers "Singlsyn"
Multi-pole & speed synchros and resolvers
MEMS gyros



System Equipments

Main Products:

Spatial stability equipment
Test and inspection equipment
Smart Cam System
Servo drivers and controllers
Step Driver
Trackballs
Teaching aids
Leisure equipment



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.
2. 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"

1. 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	138,200m ²
Building space	29,400m ²



Second Plant / Sensortronics Laboratory /
Motortronics Laboratory

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



Hachinohe Plant
First Hachinohe Factory

Occupied area	36,700m ²
Building space	5,300m ²



Second Hachinohe Factory /
Motortronics Laboratory

Occupied area	34,200m ²
Building space	16,400m ²



Third Plant

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



TAMAGAWA TRADING CO., LTD.
Headquarters



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

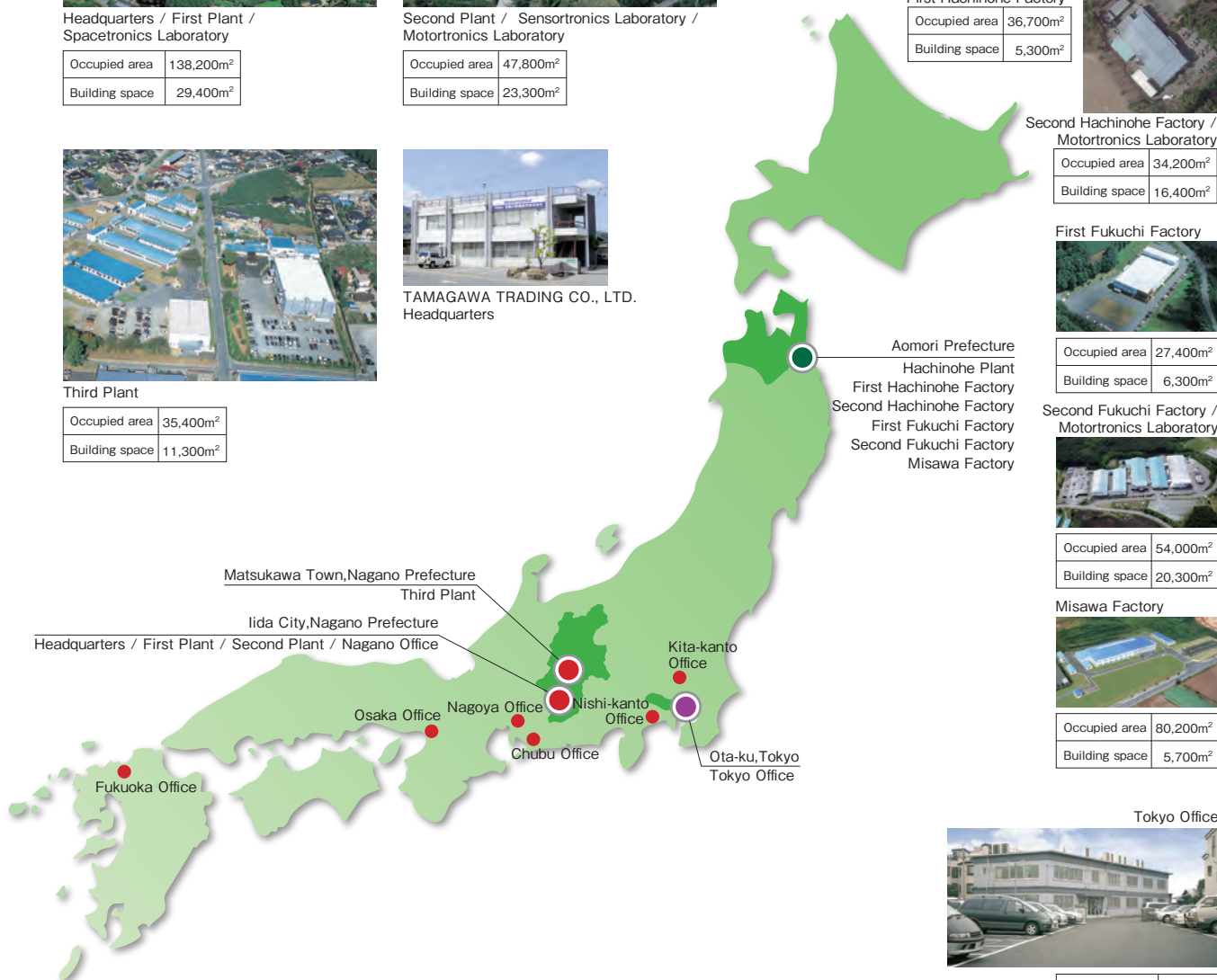
Second Fukuchi Factory /
Motortronics Laboratory



Occupied area	54,000m ²
Building space	20,300m ²



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



Occupied area	2,300m ²
Building space	600m ²

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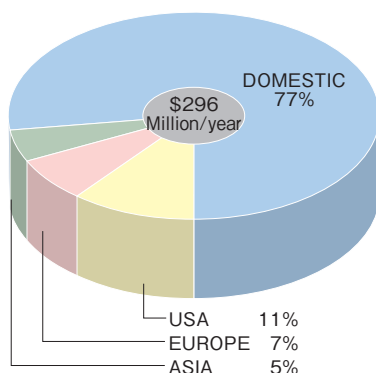
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Song Khoai Industrial Park, Song Khoai commune, Quang Yen town,
Quang Ninh province, Viet Nam

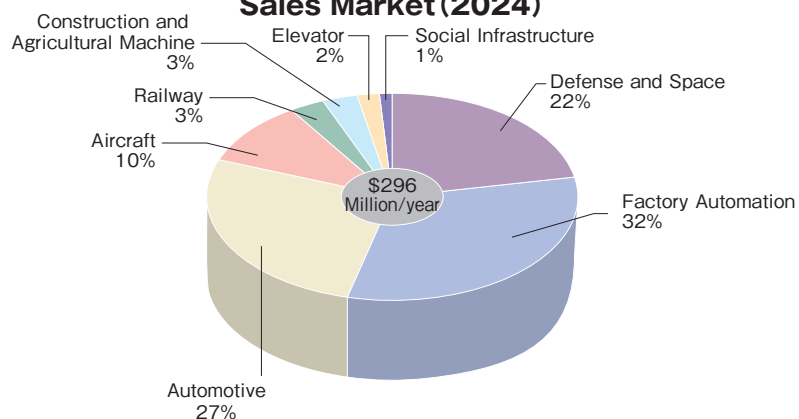
Global Network and Performance



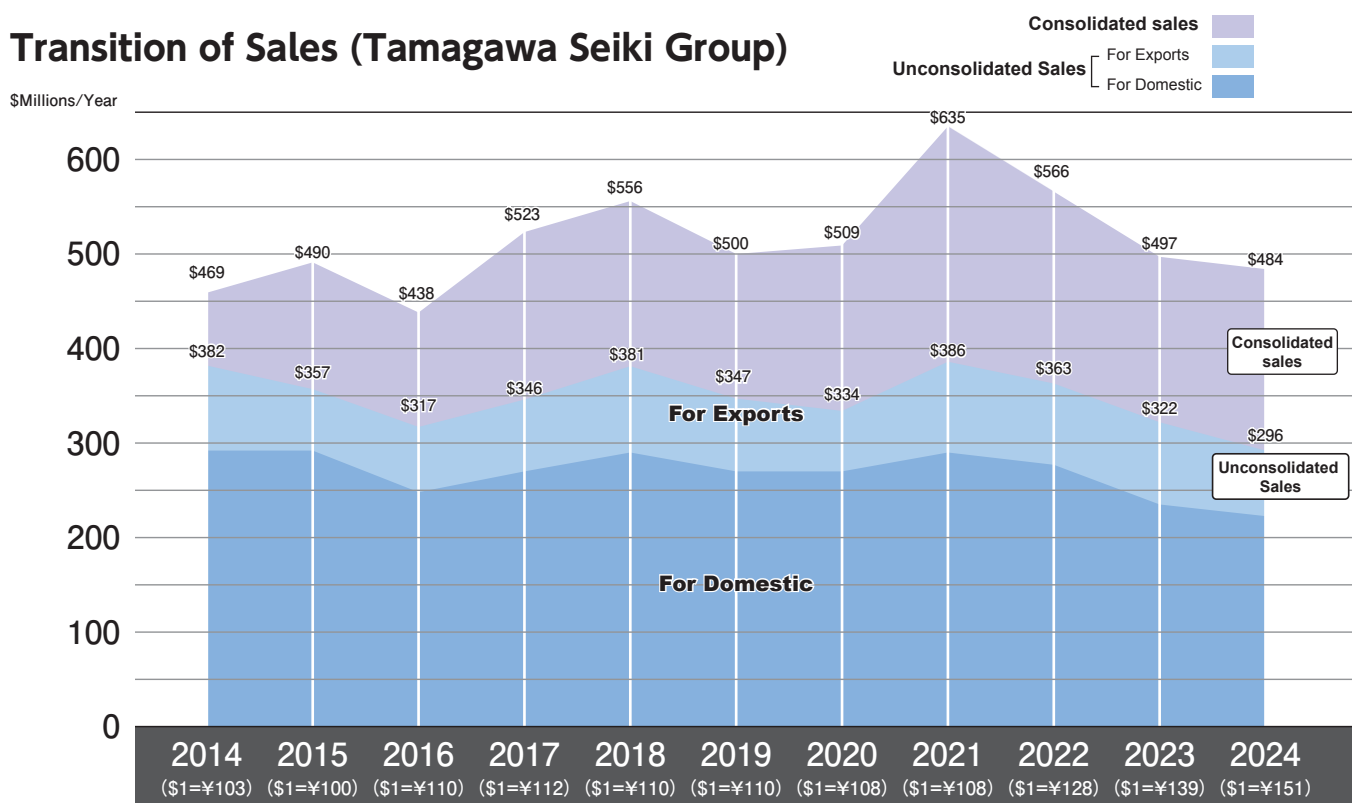
World' Market Ratio (2024) \$1=¥151



Sales Market (2024)



Transition of Sales (Tamagawa Seiki Group)



●URL <https://www.tamagawa-seiki.com>



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