



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

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

Southern Japanese 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

Iida City

Chuo Expressway

TAMAGAWA SEIKI CO., LTD.
Headquarters

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

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 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

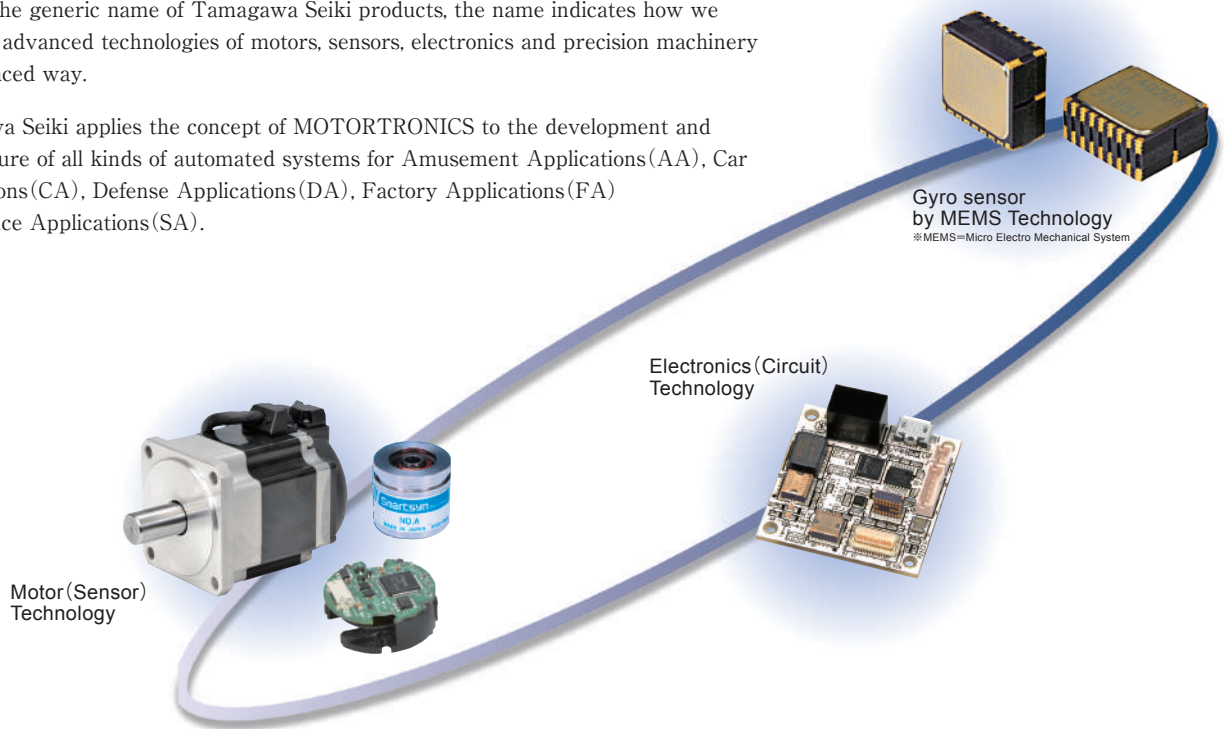
Electronics Technology

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 Amusement Applications(AA), Car Applications(CA), Defense Applications(DA), Factory Applications(FA) and Science Applications(SA).

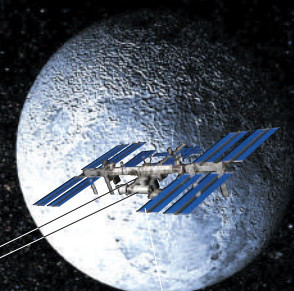


Driving Forward the Frontiers of Technology

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 (geared)
 - Brushless DC motors, Encoders
 - Steptomotors (geared)
 - Actuators
 - Vacuum equipment
 - Ground test equipment
 - Mechanical units for space instrum



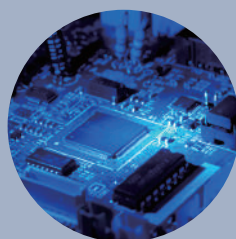
These products play an active role in 5 different application fields.



Defense
Applications



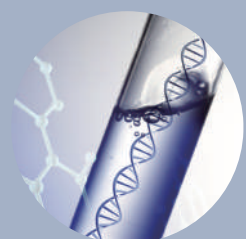
Car
Applications



Factory
Applications



Amusement
Applications



Science
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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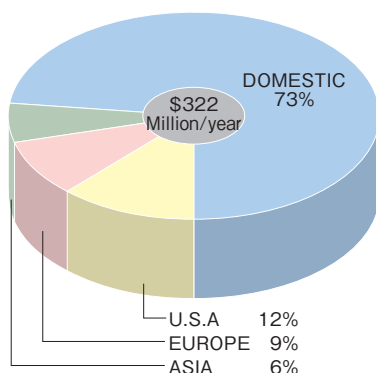
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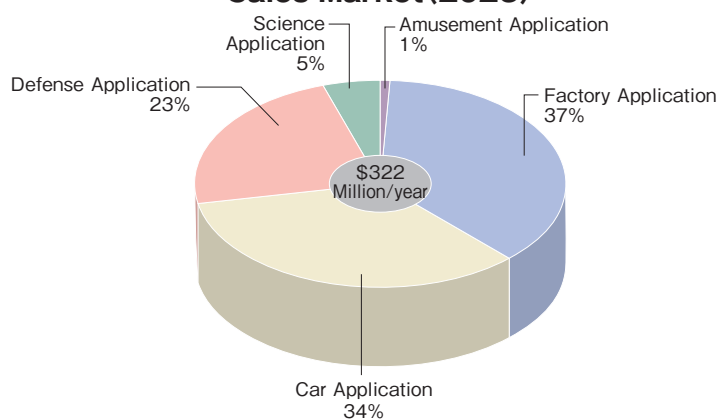
Global Network and Performance



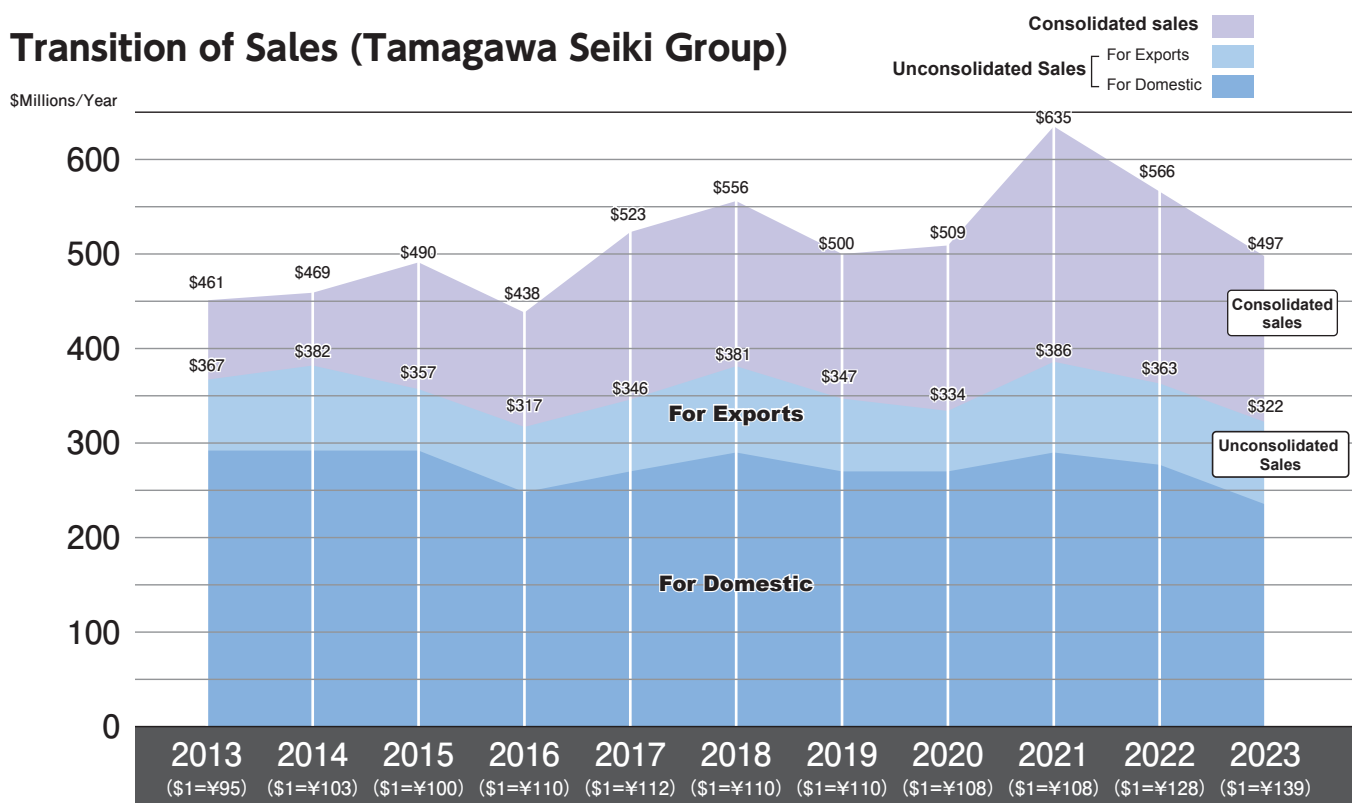
World' Market Ratio (2023)
 \$1=¥139



Sales Market (2023)



Transition of Sales (Tamagawa Seiki Group)



●URL <https://www.tamagawa-seiki.com>



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are subject to change without notice.

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