



**"Connect-Transfer" technologies  
for a bright future**

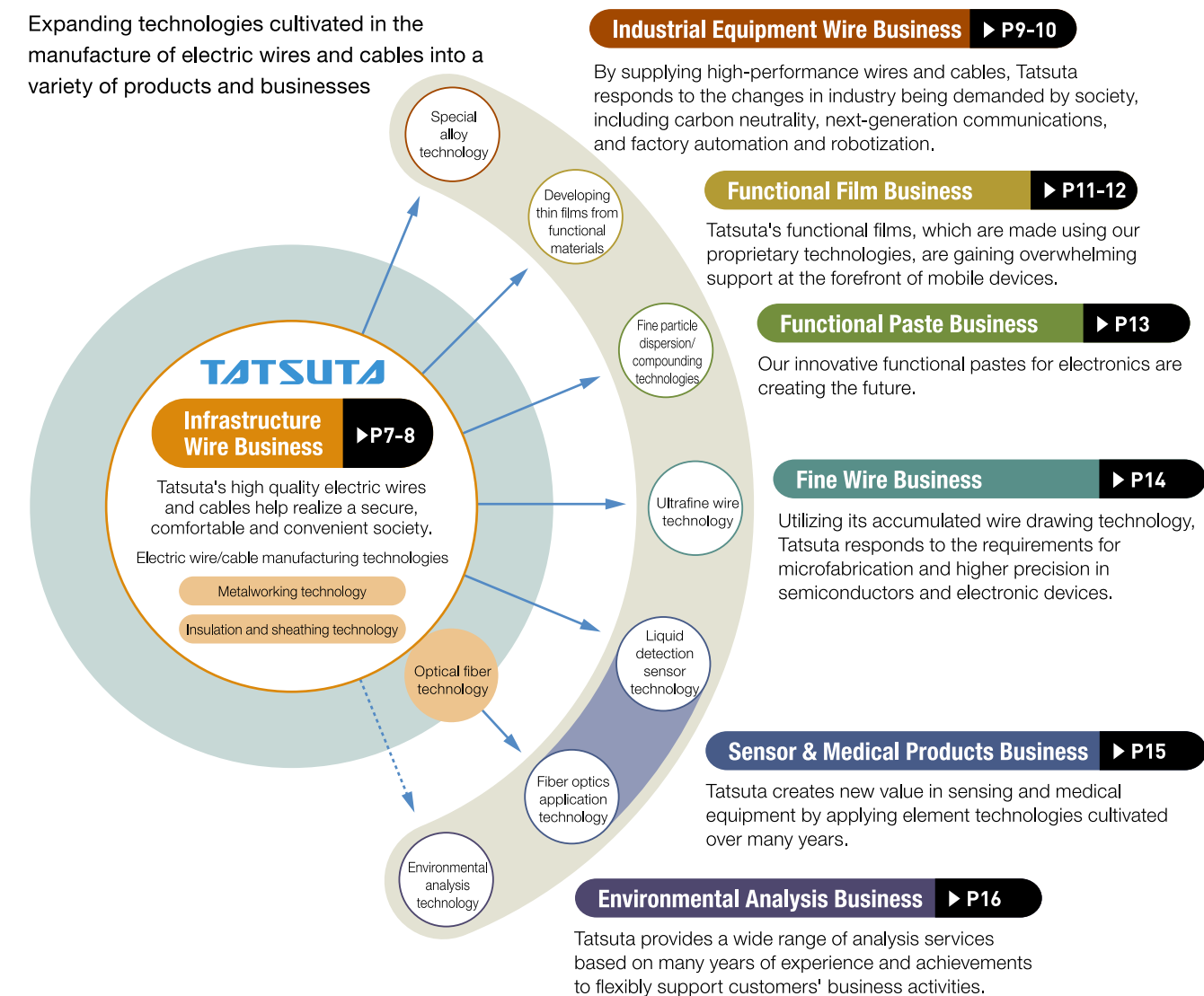
# "Connect-Transfer" technologies for a bright future

## The Tatsuta Group leverages its unique technologies to support infrastructure and advance new frontiers.

By applying and upgrading our proprietary technologies cultivated in our electric wire and cable products, we are working to develop new business areas to meet the needs of society in terms of the advancement of electronics. We will continue to develop businesses that will bring about a prosperous future for society by becoming a top supplier providing highly advanced and niche products.

## Tatsuta's Business Domains

Expanding technologies cultivated in the manufacture of electric wires and cables into a variety of products and businesses



## Convey, send, and connect to the future that we aim for

Since its founding in 1947, TATSUTA Electric Wire and Cable has contributed to the development of society through the manufacture and sale of electric wires for infrastructure, including electric wires that supply the electricity we need in our daily lives and those used in power generation plants, as well as electric wires for industrial equipment used in solar power generation systems, railway-related products, factory automation and robots, and other products. At the same time, by integrating our core technologies related to conductive metals and insulating resins, which we have cultivated through relentless technological development, we have expanded our business areas to include high-performance electronic materials, liquid leakage sensors, and components for environmental analysis devices and medical equipment.

Our management philosophy is to contribute to the sustainable growth of society by providing products and services that benefit society. Accordingly, our culture of thoroughly responding to the needs of society and our customers in the development of cutting-edge technology and products is part of our company's spirit that has been passed down from generation to generation.

In a rapidly changing social environment, we are working to create new value, focusing on renewable energy, next-generation communications, IoT, robotics, in-vehicle devices, and medical-related fields, where there is an ever-increasing need. To this end, we have taken a multifaceted approach, including not only our own technological development, but also collaborations with companies and universities with differentiated technologies, and the active promotion of our in-house new business proposal program, the T-Challenge Program.

Furthermore, based on our Corporate Code of Conduct and the recognition that conserving the global environment must be a basic element of our management approach, we strive to reduce our environmental impact by promoting resource and energy conservation, recycling, and energy creation in all aspects of our business activities.

As a technology development company, we will take on challenges in new business fields through continuous and aggressive innovation to achieve sustainable enhancement of our corporate value.

We would like to ask for your continued support and encouragement.

Shohei Morimoto

Representative Director,  
Chief Executive Officer



### Corporate Principles

Based on our core businesses of electric wire/cable and electronic materials and with overwhelming vitality and speed, Tatsuta will continuously and proactively take up the development of businesses that will lead the next generation. At the same time, we will also promote a consolidated management that is both highly conscientious and transparent, so that we may create sustainable growth and improve long-term corporate value, as well as consider global environmental problems while providing products and services with characteristics that will meet customer needs and thus also contribute to the sustainable growth and development of society.

### 2025 Long-Term Vision

#### Qualitative objective

Tatsuta will explore the frontiers of electric wire and electronic materials with the aim of becoming a niche top supplier that provides unique cutting-edge parts and materials.

#### Quantitative objective

While maintaining high profitability, we will grow the scale of the corporate group by another digit (net sales of 100.0 billion yen and operating income of 10.0 billion yen in the fiscal year ending March 31, 2026).

### Quality and Environment Policy

1. To successfully enact our corporate principles, we will continuously and appropriately strive to integrate our business processes, improve products and services, and promote environmental protection, according to our corporate code of conduct.
2. We will observe applicable laws and regulations and customer requirements by developing and operating quality and environmental management systems based on ISO standard requirements.
3. We will strive for quality improvement, pollution prevention, and environmental protection by extracting and responding to the risks we must address.
4. To maintain quality and environmental management systems and enhance their performance, we will continuously improve them by implementing the PDCA cycle.



Element Technologies

# Developing a diverse range of element technologies.

## The Tatsuta Group is pioneering the frontier of electric wires and electronic materials.

	<p><b>Electric wire/cable manufacturing technologies</b></p> <p>Since our establishment, as a manufacturer with an integrated production system for electric wires, we have refined our technologies for processing metals that serve as conductors and developing various coating materials used for insulators and sheaths.</p>	Wires for infrastructure	Low-friction cables	Barcode-printed cables	>
	<p><b>Special alloy technology</b></p> <p>Tatsuta has developed a special high-durability alloy that can be used in demanding environments without breakage, as well as coating materials that offer superior flexibility and durability. We also possess various terminal processing technologies tailored to specific equipment, in addition to cable terminal forming and connector installation technologies.</p>	かるまげ™ (Karu Mage)	Customized cable terminals	High-strength alloys	>
	<p><b>Making thin films from functional materials (film)</b></p> <p>Providing many functions on just a few micrometers thickness, we combine plastics, metallic filler, compounding, and film-manufacturing technologies. Our high-performance products have a strong track record in the market.</p>	EMI shielding film	Conductive bonding film	Free grounding film	>
	<p><b>Fine particle dispersion/compounding technologies (functional pastes)</b></p> <p>Unique functional pastes that combine polymer compounding technology that Tatsuta has cultivated through the manufacture of electric wires with various metals. Opening up a new market for environmentally friendly printed electronics.</p>	EMI shielding paste	SMT paste	Via filling paste	>
	<p><b>Ultrafine wire technology (bonding wires)</b></p> <p>Ultrafine wire and alloy technologies that Tatsuta has accumulated through copper wire drawing are used to produce various types of wires, including gold, silver and copper wires. Custom-made products are also available to meet specific user demand.</p>	Au wire	Cu wire	Ag wire	>
	<p><b>Liquid detection sensor technology (sensor-related products)</b></p> <p>Tatsuta has developed highly reliable liquid detection sensors using wire braiding technology, protecting important assets from the threat of water. We are entering new fields through the development of new sensors using element technologies, such as integration into server equipment.</p>	Chemical and flame resistant sensors	Flame resistant sensors	Sheet-type sensors	>
	<p><b>Fiber optics application technology (optoelectronics related products)</b></p> <p>Tatsuta contributes to the ever-evolving medical and measurement fields by utilizing extensive knowledge and experience in optical fiber devices. We use optical fiber device manufacturing technology and measurement technology to create customized products which meet the customer's requirements.</p>	Optical fiber couplers	Optical fiber modules	Optical fiber interferometer modules	>
	<p><b>Environmental analysis technology (Tatsuta Environmental Analysis Center Co., Ltd.)</b></p> <p>Tatsuta has built up various analysis technologies for water, air, and soil analysis, and is expanding its range of technologies to speed up and improve the accuracy of analysis.</p>	Environmental analysis	Material and product analysis	Ultra-trace analysis	>

<p><b>Infrastructure Wire Business</b></p> <p>Based on technology cultivated over many years, we manufacture wires and cables for infrastructure used in power plants, contributing to the stable supply of electric power. We also supply aluminum wires to meet customer needs.</p>		<p>p7-8</p>
<p><b>Industrial Equipment Wire Business</b></p> <p>We focus on developing original products for industrial equipment in all kinds of fields, including railways, factory automation, robots, audio, and broadcasting. We respond to actual needs with our comprehensive capabilities.</p>		<p>p9-10</p>
<p><b>Functional Film Business</b></p> <p>We have earned unshakeable trust for our broad lineup of EMI shielding films that meet the needs of the mobile terminal market, where signal transmission speeds are faster than ever, as well as our global quick delivery system.</p>		<p>p11-12</p>
<p><b>Functional Paste Business</b></p> <p>Our high performance and functional pastes are developed by using Tatsuta's original dispersion and formulation technologies, which enable higher density and functionality for electronics products. Those technologies have brought us to new market segments, such as 3D semiconductor packaging and EMI shielding applications.</p>		<p>p13</p>
<p><b>Fine Wire Business</b></p> <p>The bonding wire market is expected to become increasingly diversified and fragmented in the near future. To meet these needs, we mass produce a wide variety of fine wires under strict quality control. We will continue to demonstrate our presence in the market with our ability to respond to customers of all kinds.</p>		<p>p14</p>
<p><b>Sensor &amp; Medical Products Business</b></p> <p>We create a safe and secure future through sensing technology based on elemental technologies relating to optical fibers, conductive materials, and resins, as well as medical equipment components.</p>		<p>p15</p>
<p><b>Environmental Analysis Business</b></p> <p>Our environmental analysis business is founded on a wide range of services, from the analysis of hazardous substances in the environment, products, and materials, to contamination surveys and purification, and support for improving the environment.</p>		<p>p16</p>



Tatsuta's high quality electric wires and cables help realize a secure, comfortable and convenient society.

## Infrastructure Wire Business

Tatsuta has well-grounded confidence in quality, secure technology, and know-how, based on its long experience developing and marketing electric wires and cables. To supply electric power more safely and reliably, we continue to pursue high functionality and quality in our electric wires and cables.

In response to the demand for greater consideration of the global environment, we also supply wires and cables to power plants that use renewable energy, thus helping create a sustainable society. We also manufacture aluminum overhead distribution cables, which are increasingly replacing copper overhead distribution cables, and supply wires and cables according to the requirements of customers.

We develop original products to meet the needs of customers, such as low-friction cables with improved ease of installation and barcode-printed cables that contribute to the early restoration of services in the event of a disaster and more efficient wiring work.

### Quality assurance system to support safe and reliable infrastructure

We have taken independent steps to improve the standards that form the basis of our quality by establishing and implementing a system in which all process abnormality information is consolidated by the Quality Assurance Department. By repeating this process, we check the effectiveness of the standards, review control items, and improve the level of quality. Through these activities, we are constantly enhancing standards at each workplace, leading to a steady improvement in quality.

#### Inspections and data management through the introduction of advanced equipment

In the manufacture of wires and cables, we have been successively introducing operation condition monitoring and control systems that use data to manage the main conditions (temperature, pressure, rotation speed, etc.) of production lines, and implement thorough quality control by constantly monitoring changes in operation conditions and the occurrence of abnormalities. In addition to manual inspections using measuring instruments, we also conduct highly accurate inspections using automatic measuring instruments. For example, we use an image dimensional measuring instrument for structural inspections, enabling us to conduct speedy and accurate inspections on the spot when products are finished.

#### Inspection of finished products

Our qualified quality inspectors ensure that structural tests, voltage withstand tests, and other inspections based on specifications are performed to check quality.

#### Process control

To prevent the occurrence of product defects, in the event of an abnormality in a process, the Quality Assurance Department performs a quality check and utilizes a process abnormality management system that records the nature of the abnormality and the appropriate action to be taken.

#### Improvement of quality and customer satisfaction (CS)

The Quality Assurance Department takes the lead in addressing customer complaints and product defects, and thoroughly investigates the causes of the defects. By finding the true cause, we formulate and implement appropriate measures to prevent recurrence, and regularly check the effectiveness of these measures to ensure that the same problem does not happen again.

### Reliable, high quality products that support the infrastructure of society

We have built up trust over many years as a company specializing in electric wires and cables, contributing to the creation of an infrastructure to realize an affluent society. Exercising strict quality control, we support the safety and security of the electric facilities of power companies by providing cables for nuclear and thermal power plants, overhead and underground distribution cables, and service wires.



### Electric cables for power distribution in factories, buildings, apartments, and other facilities

We participated in the foundation of Sumiden HST Cable Ltd. (HS&T), a leading company providing electric wires and cables specialized for construction. As a manufacturing and distribution base of HS&T in western Japan, we play an important role in building social infrastructure.

**HS&T**  
住電HSTケーブル株式会社  
Sumiden HST Cable, Ltd.



### Low friction performance for improved ease of installation

#### Low-friction cable

This cable is easy to install. Wiring tension is reduced by up to 80% compared to our conventional products. It is possible to eliminate wiring lubricants, extend the wiring span, and reduce the number of manholes.



### Barcodes enabling the identification of cable systems

#### Barcode-printed cables

This technology enables the acquisition of information by reading the barcode printed on the surface of the cable sheath. This allows cable systems to be instantly identified, and contributes to the early restoration of services in the event of a disaster and more efficient wiring work. Length marks and arbitrary character strings can also be printed.





By supplying high-performance wires and cables, Tatsuta responds to the changes in industry being demanded by society, including carbon neutrality, next-generation communications, and factory automation and robotization.



## Industrial Equipment Wire Business

In response to social demands, we have been supplying wires and cables for use in various fields, including railways, construction, and machinery. Furthermore, in recent years, social changes such as carbon neutrality, next-generation communications, and factory automation and robotization have led to demands for the development of power transmission and distribution networks and the enhancement of cable functionality. We supply wires and cables that meet the needs of our customers arising from these social changes in industry.

We are making significant contributions to the stable supply of electricity in line with the times in a variety of fields, including ネットフ115™ (Netsu Tough 115), which contributed to cost savings through material development technology; Highly flex-resistant robot cables (KORIKI™ high-strength cables) adopting our specially developed high-strength alloys; Agreeable™, suitable for use in agricultural settings where automation and labor saving are expected in the future; broadcasting cables delivering high-quality images and sound; and かるまげ™ (Karu Mage), specialized for wiring needs in narrow spaces.

### Pursuing the synergy of technologies from each company to meet diverse needs

The Tatsuta Group can meet a variety of customer needs by combining the technologies of the various companies under its umbrella.

#### ■ Tatsuta Tachii Electric Cable Co., Ltd.

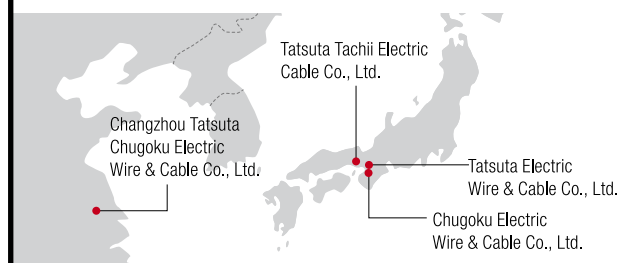
Integrated production from conductor design to commercialization of various types of custom cables, including those for factory automation and robots with excellent flex resistance, as well as broadcasting cables for high quality audio and video transmission. Tatsuta Tachii Electric Cable has earned a high level of support through its extensive track record.

#### ■ Chugoku Electric Wire & Cable Co., Ltd.

Focusing on the development of products which meet global standards, Chugoku Electric Wire & Cable uses its accumulated technologies to develop and provide international-standard cables that can be used in various parts of the world, as well as cables that are optimal for places with harsh operating conditions.

#### ■ Changzhou Tatsuta Chugoku Electric Wire & Cable Co., Ltd.

Established to achieve "Japanese quality outside Japan." It manufactures multi-standard cables and robot cables for the local market and provides a full range of products and services, including terminal processing, to meet the various needs of its customers.



### Ideal for wiring in narrow spaces, such as data centers

#### ■ かるまげ™ (Karu Mage) (KM-CC), for wiring in narrow spaces, such as between panels

Cables with excellent flexibility, particularly useful for wiring in narrow spaces, such as those surrounding cubicles. The use of fine wires for the conductor contributes to space saving for wiring in panels, as the bend radius is 4D (at least four times the overall cable diameter).



### Realizing cost saving through size reduction

#### ■ ネットフ115™ (Netsu Tough 115) (S) HKIV

We developed new appliance wiring material with special heat-resistant PVC insulation, featuring a conductor with a maximum allowable temperature of 115°C. Allows for a reduction in size according to the installation conditions, helping save on costs. Available in a wide variety of colors.



### Cables for solar power generation systems

#### ■ DC1500V, PV-CQ

Conforming to Article 46 of the Interpretation of Technical Standards for Electrical Equipment, this product is halogen-free and environmentally friendly. A wide range of variations are available (PV-CQ, CQD, CQT, CQQ).



#### ■ 600V, HCV

This cable can be used at a rated voltage of 600V or less and a rated temperature of 90°C.

### Adoption of our proprietary high-strength alloys as conductors

#### ■ KORIKI™ high-strength cables

Our high-strength alloys have dramatically improved flex resistance and strength. We support factory automation with advanced technology, and sell instrumentation cables suitable for fixed sections.



### Delivering crisp video and clear audio

#### ■ Broadcasting cables

We have developed high quality video cables and audio cables that deliver clearer audio using technology accumulated over many years. Its products are used in broadcasting stations, halls, theaters, and event venues inside and outside Japan.



### Cables for all purposes that meet the standards of countries around the world

#### ■ Multi-standard cables

In response to the globalization of the market, Chugoku Electric Wire & Cable has developed cables for various applications that meet not only domestic standards, but also European, North American, and Chinese standards. It has gained a reputation for high quality and high performance products.



### Integrated production, from design and manufacturing to terminal processing

#### ■ Customized cable terminals

We provide connector installation and other terminal processing in addition to form-processed cables, helping shorten the time required for on-site installation.



### A wire that gives shape to the voices of farmers

#### ■ Agreeable™

This product supports automation and labor saving in the next generation of agriculture, created in response to requests for added convenience among farmers. It has excellent cold, heat and weather resistance, and is lightweight, making it easy to install and use in a variety of locations.



\*かるまげ (Karu Mage) and ネットフ115 (Netsu Tough 115) are trademarks of Tatsuta Electric Wire & Cable Co., Ltd., registered in Japan.

\*KORIKI is a trademark of Tatsuta Electric Wire & Cable Co., Ltd., registered in Japan and other countries.

\*Agreeable is a trademark of Chugoku Electric Wire & Cable Co., Ltd., registered in Japan.





Tatsuta's functional films, which are made using our proprietary technologies, are gaining overwhelming support at the forefront of mobile devices.

# Functional Film Business

As electronic mobile devices such as smartphones and tablets continue to become smaller, lighter, and more multifunctional, the need for shield technologies, which are essential for protecting internal circuits, is rapidly increasing.

We were quick to sense such market trends and successfully developed a conductive paste utilizing our accumulated technical know-how. Further applying this conductive paste technology, we succeeded in making EMI shielding material in the form of a film, the first of the functional films that would later become our company's core business.

Today, EMI shielding films for flexible printed circuits (FPC) for smartphones and other devices are in use throughout the world. In recent years, there has been wide adoption of high-speed transmission shield films compatible with 5G, and high-frequency, high-flex shield films for use in foldable devices. We are pressing forward with the development of functional films that include further added-value.



## Acquisition of certification for a "business continuity management system" based on ISO 22301

Tatsuta established a business continuity management system with the aim of continuing and quickly recovering its business activities and minimizing the impact on its products and services for customers in case of a range of eventualities. Such eventualities we assume are not only natural disasters such as large-scale earthquakes but also supply chain disruptions, pandemics, and information system failures, including cyber attacks. We obtained third-party ISO 22301:2012 certification in July 2016.



BCMS 653311/ISO 22301

ORGANIZATION NAME	TATSUTA Electric Wire and Cable Co., Ltd. Electronic Materials & System Equipment Group Functional Materials Division and Related Departments
LOCATION	Tatsuta Technical Center, Head Office, Kyoto Works, Sendai Works
CERTIFICATION SCOPE	The production and sales of functional film
CERTIFICATION NUMBER	BCMS 653311
APPLIED STANDARD	ISO22301:2019 / JISQ22301:2020
FIRST CERTIFICATION REGISTRATION DATE	July 25, 2016
UPDATED	July 25, 2022
CERTIFICATION BODY	BSI Group Japan K.K.

## Tatsuta's world-class films

### Functional films

We offer a variety of products that add functionality to electronic printed circuit boards, including shielding film that cuts electromagnetic noise and prevents the malfunction of electronic devices.

- EMI shielding film for FPC
- EMI shielding film for FFC
- Free grounding film



EMI shielding film for FPC

### Conductive adhesives

Conductive adhesives are applied to places where electric conductivity is required in electronic circuits or between electrodes.

- Conductive bonding film
- EMI shielding tape



Conductive bonding film

## Monthly functional film production capacity of 1,500,000 m<sup>2</sup>, ensuring prompt and stable supply

To maintain our leading position in the global market for functional films, we established the Sendai Works as a new production base, securing us a monthly total production capacity of 1,500,000 m<sup>2</sup> spread across three Japanese domestic production bases. This has enabled us to ensure a quicker and more stable product supply by helping us keep abreast of further growth anticipated in the market for electronic mobile devices, especially smartphones.



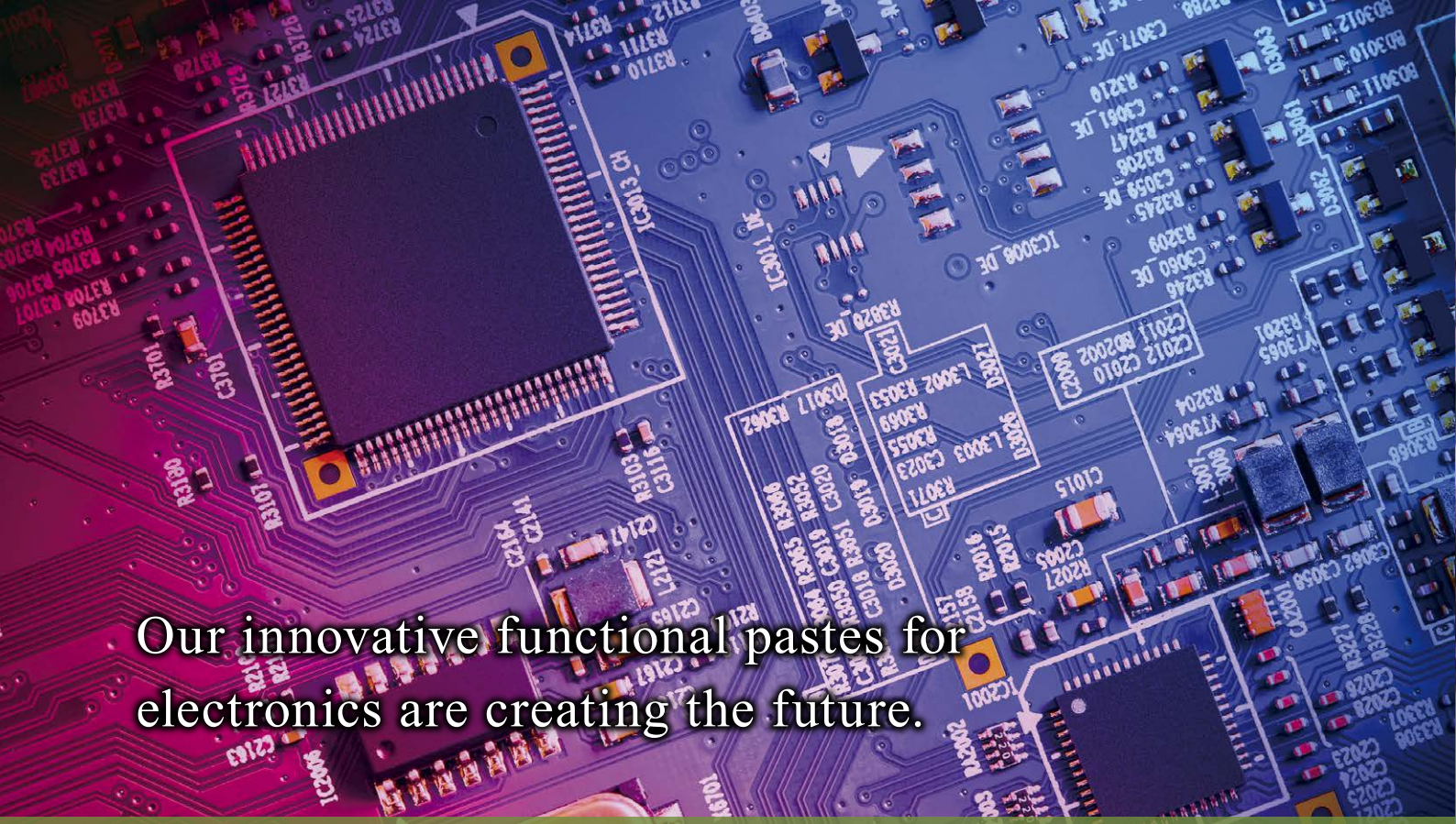
Functional Film Plant, Tatsuta Technical Center

We have established our own quality inspection system. Both human and mechanical checks are performed at each process, and inspections are also conducted at the time of shipment, thus ensuring rigorous quality control.



Quality inspection being conducted





Our innovative functional pastes for electronics are creating the future.

## Functional Paste Business

## Fine Wire Business

Our 3D thermal and electric transmission functional pastes are created using over 30 years metal and resin formulation accumulated knowhow and technology.

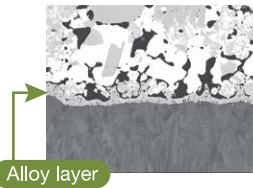
These have been widely used in home electronics, mobile devices with increasingly high functionality, electronic devices for automobiles, etc. that require high reliability.

Tatsuta's functional pastes for advanced multi stacked semiconductor and EMI shielding application continue to evolve as functional materials that can replace conventional sputtering, plating and soldering.

### Developing a wide variety of pastes to meet customer needs

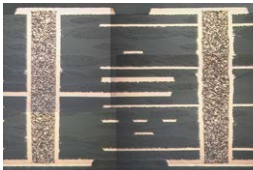
#### Via filling paste (Metalizing type)

A metalizing paste for highly reliable connection. The paste is created by combining metal powders with varying high and low melting points in resin, and when heated the metals fuse, the result of which is high reliability in terms of resistance to vibrations and heat. It is widely used in semiconductor and automotive applications.



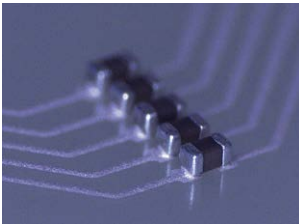
#### Via filling paste (silver-coated copper powder type)

Metal contact thermal curable paste has been used for various printed circuit board via connections for consumer and automotive applications over many years. Surface-treated metal is formulated with original resins, creating electric and thermal conductivities by thermal curing. Solvent-free formulation also enables continuous printing for more than half a day and enables void-free high reliability performance.



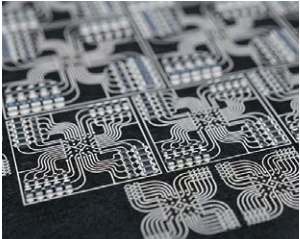
#### Solder replaceable 3D SMT paste

As this paste can be cured at low temperatures, it is possible to use it in components for plastic and other low-cost substrates. Unlike soldering, it does not remelt during high-temperature secondary processes, so it makes 3D SMT easy.



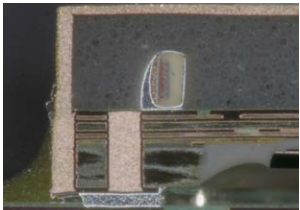
#### Circuitry, antenna and pad printing paste

As this paste can be cured at low temperatures, it also adheres well to substrates with low heat resistance or high-speed substrates. As it can be directly soldered, the paste can also be used as an electrode in component mounting. The paste also adheres to semiconductor packages and can be printed as antennas.



#### EMI shielding paste

Through screen printing on semiconductor packages or the surface of multilayer substrates, the paste can be used as an EMI shielding layer or a grounding electrode. It is optimally suited to slimline or high-density electronics devices.



Bonding wire is an important component of semiconductor packages. Utilizing wire drawing technologies built up in electrical wire manufacturing, we develop highly reliable gold, silver, and copper wiring to support the next generation of semiconductor packages to respond to evolving requirements for microfabrication and higher precision. As well as incorporating added-value to our more reliable wires in the form of wire plating processing, resin coating, and stranded wires, we work to create innovative new products and markets in order to contribute to the development of electronics in general.

### The low resistance of high-purity silver wire enables high-speed signal processing

#### Silver (Ag) wire

High-purity silver wire is finding increasing use, particularly in memory applications, because of its high reliability while also having lower resistance than gold wire. As well as cost reductions from not using gold, silver wire is supporting next-generation semiconductor packages that require high-speed signal processing.



### Our proprietary alloy designs are making gold wire even more reliable

#### Gold (Au) wire

Semiconductor packages are continuing to become more intricate and more precise; as the diameter of gold wires becomes smaller, there are more and more issues related to creating designs that ensure reliable connections with electrodes, a cause for concern. To address these issues, we have developed a 2N gold-alloy wire with an original design that boasts exceptional reliability. Going forward, we will continue to actively work on pioneering customized gold wire designs.



### Like gold wire, gold-coated silver wire helps form FABs without the use of gas

#### Gold-coated silver wire

Our gold-coated silver wire enables free air ball (FAB) formation without the need to use gas. Using traditional bonding equipment designed for gold wire specifications as-is, users can form FABs. The wire also offers a considerable cost reduction compared to 4N gold wire.



### Our 6N high-purity copper wire, one of our strongest products, is supporting the world's power semiconductors

#### Copper (Cu) wire

The 6N high-purity copper wire that is one of our strengths is helping to make power semiconductors more functional and more reliable, particularly for automotive applications. As a result, it has become a long-term bestseller supported by major semiconductor manufacturers around the globe. It is sure to continue drawing attention in many fields as a key component supporting next-generation power semiconductors.



### Palladium-copper wire strikes a balance between working properties such as corrosion resistance and ability to bond

#### Palladium (Pd)-coated copper (Cu) wire

Through an original design, we have managed to create a wire with high corrosion resistance and that excels at bonding, all while costing less than gold wire. It is used in many applications, including IC, discrete packages, and power semiconductors.





Tatsuta creates new value in sensing and medical equipment by applying element technologies cultivated over many years.

## Sensor & Medical Products Business

### Sensor Business (system equipment, optoelectronics)

**With our unique sensing technology, fiber optics application technology, and resin compounding and processing technology, we will create a secure future for our increasingly information-oriented and aging society.**

Leakage detection technology to protect important facilities from water leakage, and high-precision, high-quality fiber optics application technology required in medical and analytical fields. In recent years, products using these sensing technologies have been adopted not only in buildings and factories, but also in infrastructures such as data centers, which are attracting attention for their use of IoT and big data, as well as in the medical industry and various other industries. We will continue to pursue the further possibilities for sensing by combining the technologies at our disposal.

### Medical Products Business

**We will facilitate the development of the medical industry by applying our six element technologies to the development of medical device components.**

We apply the resin compounding and processing technologies, thin-film processing, wire drawing, liquid detection, alloying, fiber optics, and other elemental technologies that we have cultivated over the years through the development and manufacture of wires, cables and functional materials to medical devices. In response to the needs and challenges of our aging society, home healthcare, and other major changes in society, we will continue to provide unique and innovative products that benefit the development of the medical industry.

### Systems

#### Water leakage detection system

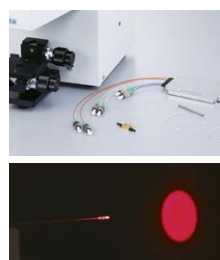
A long-selling product in use for more than 30 years since its release, deployed mainly in buildings, data centers and hospitals. In recent years, the use of water-cooling as a heat dissipation method for server equipment has been gaining pace with the full-scale development of the mass data era, and applications for our detection system have been expanding to include server components.



### Optoelectronics

#### Optical fiber device assembly and processing

We manufacture and sell high-quality optical fiber couplers, fiber Bragg gratings (FBGs), and other products based on our optical fiber application technologies. Optical fiber interferometer modules designed by combining these optical fiber devices and optical path length control technology are used in ophthalmic medical equipment and analytical instruments. Optical fiber processing, using technologies that allow extremely uniform and effective laser light into the body, has been adopted for optical fiber probes and other medical uses.



### Medical products

#### Medical equipment components

We are developing products that benefit the advancement of the medical industry, which is undergoing major changes due to such things as an aging population and the increasing need for home medical care. In this segment, our strength lies in the combination of element technologies, and we can handle everything from material development to product development. We are also developing products on consignment for major medical equipment manufacturers as an OEM supplier.



Tatsuta provides a wide range of analysis services based on many years of experience and achievements to flexibly support customers' business activities.

## Environmental Analysis Business Tatsuta Environmental Analysis Center Co., Ltd.

Tatsuta Environmental Analysis Center Co., Ltd. provides a wide range of services. These include water, air and soil analysis, the measurement of working environments and noise/vibration levels, and the analysis of various hazardous substances that continue to emerge, such as asbestos, dioxins, PFASs, and PCBs; RoHS (Restriction of Hazardous Substances Directive) analysis; and analysis of the causes of product defects and failures in products. It also offers consulting services on topics such as soil contamination surveys, purification, and chemical substance management.



### Rapid turnaround time for analysis

We pursue and accomplish short delivery times for all analytical services, allowing customers to know the results as soon as possible and promptly decide the next course of action based on the results.  
Trace PCB analysis: same day  
Dioxin analysis: 2 business days  
Soil and industrial waste analysis: 3 business days



### Conducting prompt, highly reliable analysis

#### Dioxin analysis

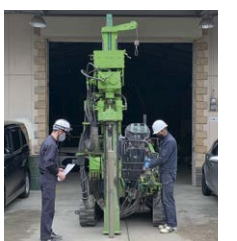
The analysis of extremely toxic dioxins requires advanced ultra-trace analysis technology and a accuracy control system to ensure high quality. Tatsuta Environmental Analysis Center has introduced the latest equipment and technology to improve its capabilities and achieve analysis in as little as two days.



### One-stop service covering everything from soil contamination surveys to remediation

#### Soil contamination surveys and analysis

Soil contamination surveys determine the status of soil contamination caused by specific hazardous substances that have permeated the ground of factories and other business establishments. We provide one-stop services for soil contamination surveys based on the Soil Contamination Counter-measures Act, including soil history investigations, soil analysis, and soil remediation.



### Supporting the introduction and operation of independent chemical substance management

#### Industrial health and safety business

Due to changes to the Industrial Safety and Health Act, companies are now called on to make independent efforts toward chemical substance management. Specifically, they must share information via labels and safety data sheets (SDSs) and conduct risk assessments. Our occupational health and safety consultants are supporting customers to introduce and operate these measures.







TATSUTA Electric Wire and Cable Co., Ltd.

■ Company profile

Established	September 28, 1945
Head Office	2-3-1 Iwata-cho, Higashiosaka City, Osaka, Japan
Capital	6,676 million yen

■ Works

Head Office / Osaka Works	2-3-1 Iwata-cho, Higashiosaka City, Osaka, 578-8585 Head Office Phone +81-6-6721-3331 (Main) Osaka Works Phone +81-6-6721-3337
Tatsuta Technical Center	6-5-1 Kunimidai, Kizugawa City, Kyoto, 619-0216 Technical Center Building Phone +81-774-66-5550 Functional Film Plant Phone +81-774-66-5552
Kyoto Works	3-17 Osadano-cho, Fukuchiyama City, Kyoto, 620-0853 Phone +81-773-27-3331
Sendai Works	2-1 Technohills, Taiwa-cho, Kurokawa-gun, Miyagi, 981-3629 Phone +81-22-346-1126

■ Branch office

Tokyo Branch Office	13-4 Araki-cho, Shinjuku-ku, Tokyo, 160-0007 (Sumitomo Fudosan Yotsuya Bldg.6F) Phone +81-3-6709-9644
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■ Affiliated companies

Chugoku Electric Wire & Cable Co., Ltd.
Tatsuta Tachii Electric Cable Co., Ltd.
Tatsuta Environmental Analysis Center Co., Ltd.
Tatsuta Welfare Service Co., Ltd.
Changzhou Tatsuta Chugoku Electric Wire & Cable Co., Ltd.
Shanghai Tatsuta Co., Ltd.
Suzhou Tech Center, Shanghai Tatsuta Co., Ltd.
TATSUTA ELECTRONIC MATERIALS MALAYSIA SDN. BHD.
Tatsuta USA, Inc.

Key centers



Head Office / Osaka Works

The origin of Tatsuta, which serves as its head office in a works that produces power cables and other products.

■ Products  
Various electric wires, power and control cables, optical fibers



Tatsuta Technical Center

The core of Tatsuta's electronic materials business, equipped with a Research Laboratory, the core of the company's research and development, and production functions.

■ Products  
EMI shielding films, conductive bonding films, bonding wires



Kyoto Works

Tatsuta's principal manufacturing base, producing electronic materials and system products.

■ Products  
EMI shielding films, conductive bonding films, functional pastes, water leakage detection systems, optical components, medical device components



Sendai Works

At this plant, Tatsuta has enhanced its platform for the mass production of functional films to achieve a stable supply to the world.

■ Products  
EMI shielding films, conductive bonding films



Chugoku Electric Wire & Cable Co., Ltd.

Offers a wide range of products, including global standard cables that can be used around the world.

■ Products  
Equipment wires



Tatsuta Tachii Electric Cable Co., Ltd.

Provides customized products to meet customer needs by utilizing an integrated production system, superior production technology, and quality control system.

■ Products  
Equipment wires



Changzhou Tatsuta Chugoku Electric Wire & Cable Co., Ltd.

Tatsuta Group's first base outside Japan, established in Changzhou, Jiangsu, China, to provide a wide range of products to customers, particularly those within China.

■ Products  
Equipment wires



Shanghai Tatsuta Co., Ltd.

As the hub of the growing Chinese market, the company supports Tatsuta's global business by promoting sales, marketing products, and servicing customers.



Suzhou Tech Center,  
Shanghai Tatsuta Co., Ltd.

Equipped with a variety of testing and analysis equipment related to functional films, this center contributes to the speedy provision of technical services to customers in China.



TATSUTA ELECTRONIC MATERIALS  
MALAYSIA SDN. BHD.

Produces and sells bonding wires for the international market, mainly Asian countries.

■ Products  
Bonding wires



Tatsuta USA, Inc.

Functions as our base in Silicon Valley for gathering information on the latest markets, innovations, and development to support Tatsuta's sales partners.

History

1945	Established.
1947	Commenced manufacture and sales of electric wires (foundation).
1950	Established Tatsuta Valve Co., Ltd. (current Chugoku Electric Wire & Cable Co., Ltd.).
1953	Completed construction of Wakae Works (current Osaka Works).
1954	Listed on the Osaka Securities Exchange.
1955	Commenced manufacture and sales of communications cables.
1961	Listed on the Tokyo Stock Exchange.
1975	Established 3T Service Co., Ltd. (current Tatsuta Welfare Service Co., Ltd.).
1976	Completed construction of Fukuchiyama Works (current Kyoto Works).
1979	Established Tatsuta Electric Wire Analysis Center Co., Ltd. (current Tatsuta Environmental Analysis Center Co., Ltd.).
1981	Commenced manufacture and sales of water leakage detection systems.
1984	Commenced manufacture and sales of bonding wires.
1987	Commenced manufacture and sales of polymer type copper conductive paste.
1989	Commenced manufacture and sales of high-strength copper alloy wires (for FA, etc.).
1996	Telecommunication Division acquired ISO 9001 certification.
1997	Commenced manufacture and sales of optical fiber couplers.
1998	Electric Wire & Cable Division acquired ISO 9001 certification.
1999	Telecommunication Division acquired ISO 14001 certification.
2000	Commenced sales of EMI shielding films.
2001	Optical Components Division acquired ISO 9001 certification.

2002	Osaka District Operations acquired ISO 14001 certification. Joined business of Sumiden Hitachi Cable Ltd. (currently Sumiden HST Cable, Ltd. [HS&T]), to conduct sales for construction and electric installation markets.
2003	Commenced in-house manufacture of EMI shielding films.
2011	Established Changzhou Tatsuta Chugoku Electric Wire & Cable Co., Ltd.
2012	Established Tatsuta Electronic Materials Malaysia Sdn. Bhd.
2013	Completed construction of Tatsuta Technical Center. Delisted from the Osaka Securities Exchange (integrated into the cash market on the Tokyo Stock Exchange).
2014	Acquired majority of shares in Tachii Electric Wire Co., Ltd.
2015	Established Tatsuta USA, Inc. System Electronics Division acquired ISO 13485 certification in the medical equipment field. Completed construction of Sendai Works.
2016	Established Shanghai Tatsuta Co., Ltd. Functional film business acquired ISO 22301 (business continuity management system) certification. Acquired a third-class license for manufacturing and marketing medical devices.
2019	Transferred and assigned business of manufacturing and selling equipment wire and cable related products that use high-strength copper alloy to wholly owned subsidiary, Tachii Electric Wire Co., Ltd. Tachii Electric Wire Co., Ltd. renamed to Tatsuta Tachii Electric Cable Co., Ltd.
2022	Raw material procurement and sales and marketing functions of wholly owned subsidiaries Tatsuta Tachii Electric Cable Co., Ltd. and Chugoku Electric Wire & Cable Co., Ltd. were transferred to Tatsuta Electric Wire & Cable Co., Ltd.
2024	JX Advanced Metals Corporation made a tender offer for all common shares of Tatsuta Electric Wire & Cable Co., Ltd., making it a subsidiary of JX Advanced Metals Corporation.



**TATSUTA Electric Wire and Cable Co., Ltd.**

The contents of this brochure are correct as of April 2025

