

An abstract background composed of numerous overlapping, semi-transparent geometric shapes in various shades of blue, green, and purple. These shapes, including triangles, rectangles, and polygons, are arranged in a dynamic, layered fashion that creates a sense of depth and movement, primarily concentrated in the lower right quadrant of the page.

COMPANY PROFILE 2021



TDK was founded in 1935 to commercialize ferrite, a magnetic material. The innovation of TDK's founder created great value to the world that had not existed before. He believed strongly in the potential of ferrite and built a venture business with origins at the Tokyo Institute of Technology even though the new material's wide-ranging uses were yet to be discovered.

TDK has continued to create products with originality and a high level of value through manufacturing excellence—Monozukuri—making use of the five core technologies of materials technology starting with ferrite; process

technology to maximize all of a material's properties; evaluation and simulation technology; production engineering technology; and product design technology. Today, TDK offers its excellence in manufacturing across a range of product groups, including capacitors, inductors, transformers, sensors, actuators, magnetic heads, magnets, power supplies, batteries, and many types of electronic components and electronic devices.

Thanks to two historic changes—Digital transformation (DX), utilizing IoT, AI and other technologies; and Energy transformation (EX), including through the expanded

use of renewable energy—the importance of electronic components and devices is reaching unprecedented heights. TDK will accelerate its efforts in DX and EX, keeping our sights not only on our customers but on the end consumer as we strive to offer technology that can contribute to a better future.

TDK has over 250 sites in more than 30 countries and regions around the world, with about 130,000 employees. Of these, about 90% are employed at sites outside of Japan. TDK's use of a highly diverse global workforce is a major strength, and a driver of our growth.

Today, achieving a sustainable society is an issue deeply integral to a company's reason for being. To realize the TDK Group's sustainability vision of "Technology for well-being of all people," TDK will continue to contribute to society by creating technology and offering products of value.

President & CEO
Shigenao Ishiguro

Corporate Motto

Contribute to
Culture and Industry
Through Creativity

Corporate Principles

VISION

Always take a new step forward with a vision in mind.
Creation and construction are not born without vision.

COURAGE

Always perform with courage.
Performing power is born by confronting contradiction and overcoming it

TRUST

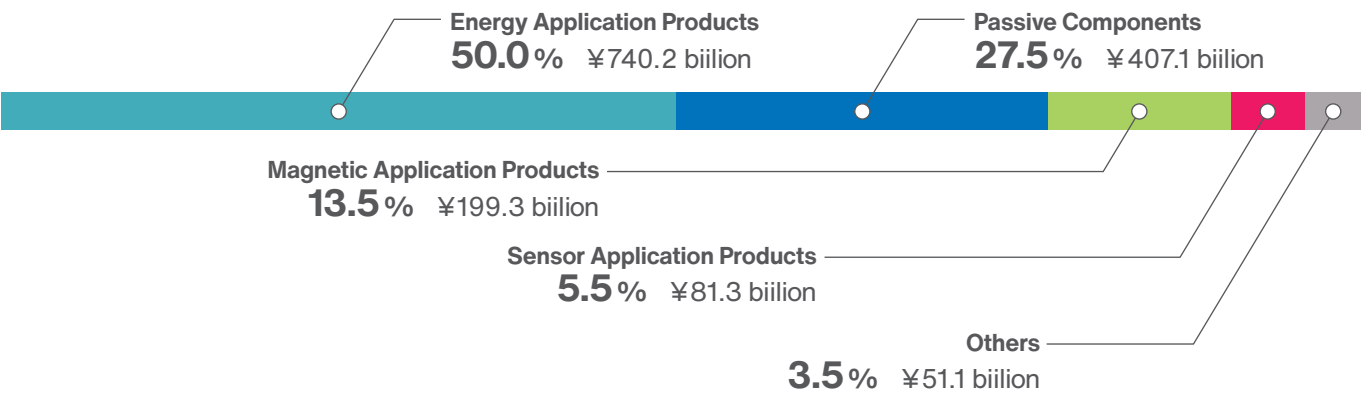
Always try to build trust.
Trust is born from a spirit of honesty and service.

General Outline of TDK

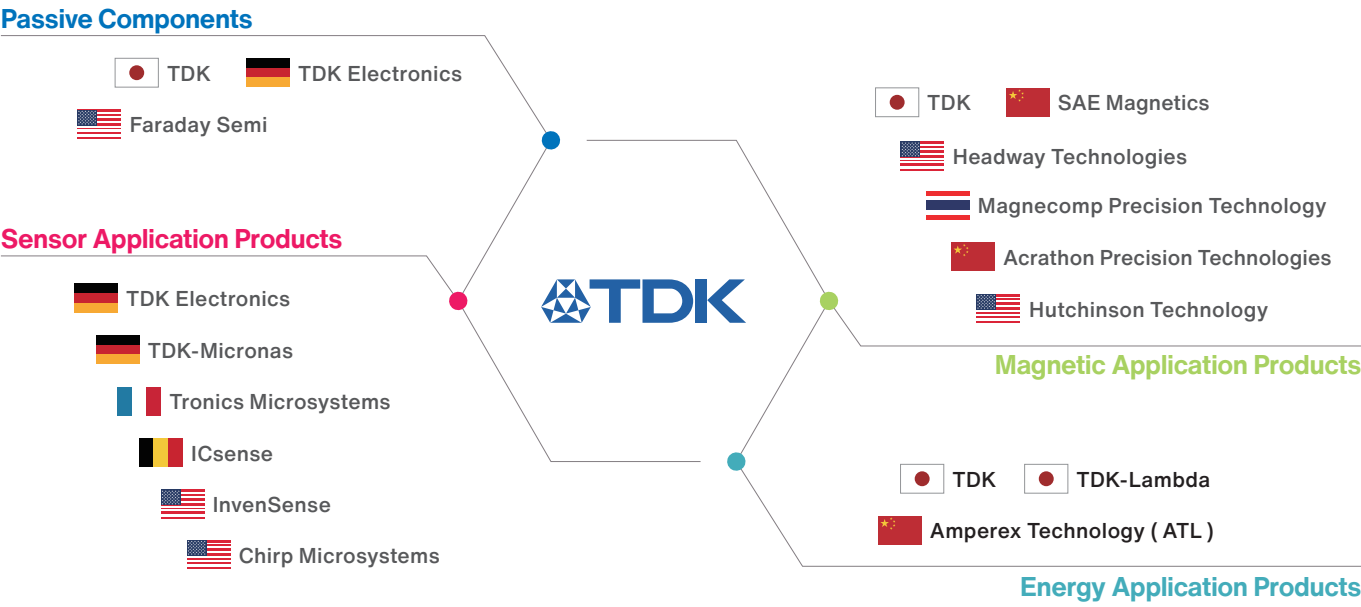
As of March 31, 2021

Corporate Name	TDK Corporation
Corporate Headquarters	2-5-1 Nihonbashi, Chuo-ku, Tokyo, Japan
Date of Establishment	December 7, 1935
Securities Traded	Tokyo Stock Exchange (6762)
Consolidated Net Sales	1,479.0 billion yen
Consolidated Net Income	79.3 billion yen
Consolidated Number of Employees	129,284

Sales by Product



Main Businesses and Group Companies

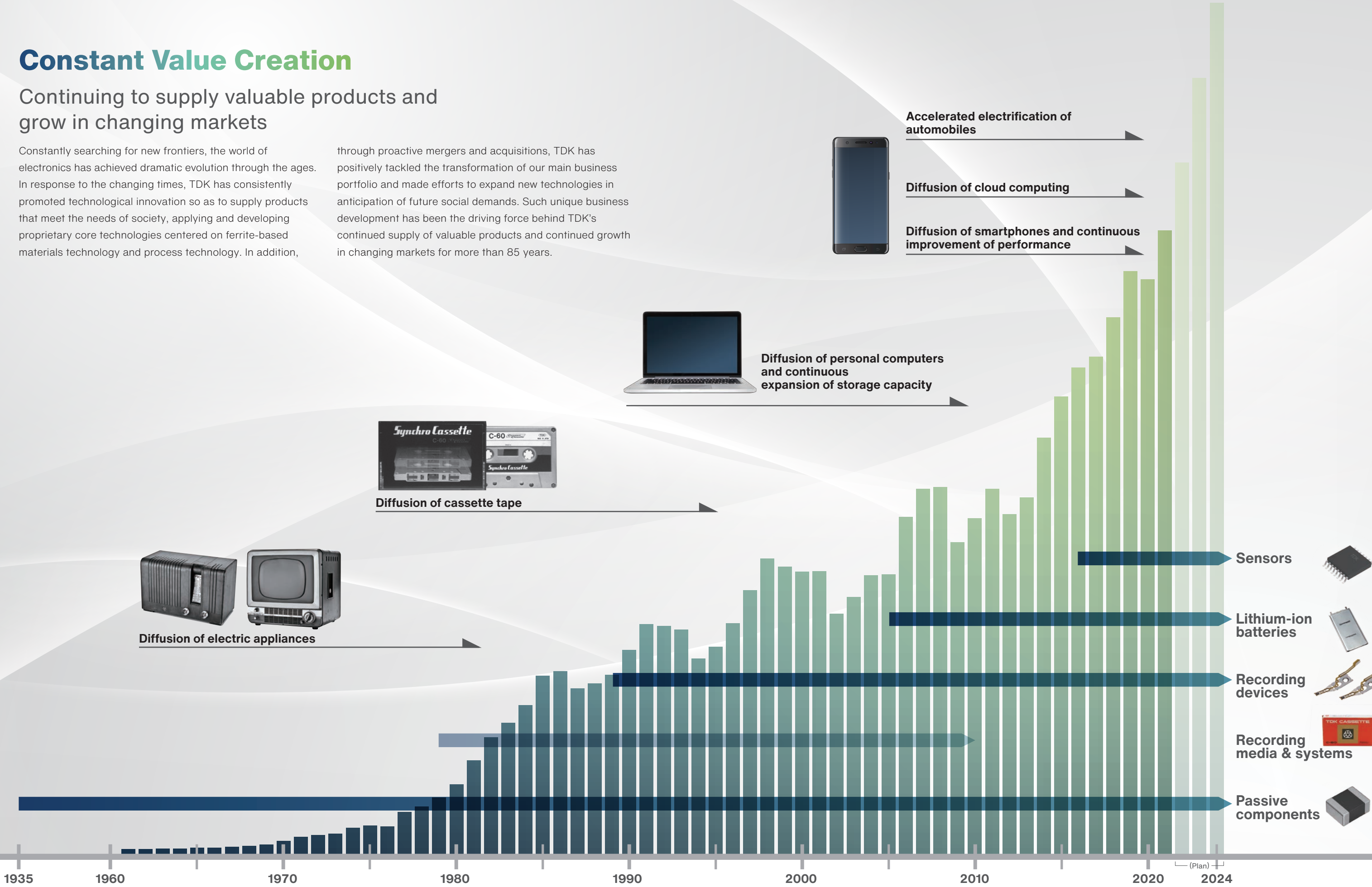


Constant Value Creation

Continuing to supply valuable products and grow in changing markets

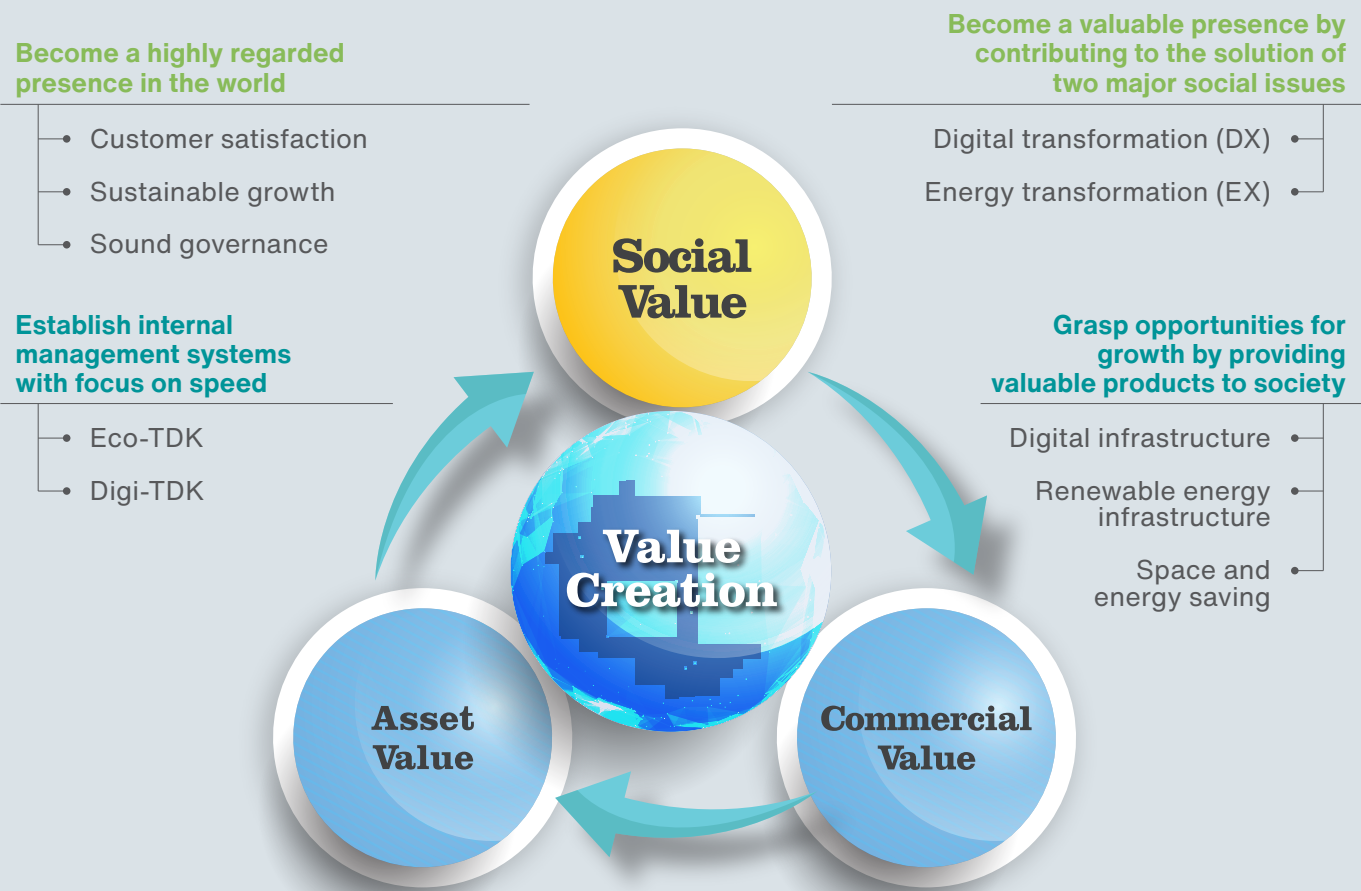
Constantly searching for new frontiers, the world of electronics has achieved dramatic evolution through the ages. In response to the changing times, TDK has consistently promoted technological innovation so as to supply products that meet the needs of society, applying and developing proprietary core technologies centered on ferrite-based materials technology and process technology. In addition,

through proactive mergers and acquisitions, TDK has positively tackled the transformation of our main business portfolio and made efforts to expand new technologies in anticipation of future social demands. Such unique business development has been the driving force behind TDK's continued supply of valuable products and continued growth in changing markets for more than 85 years.

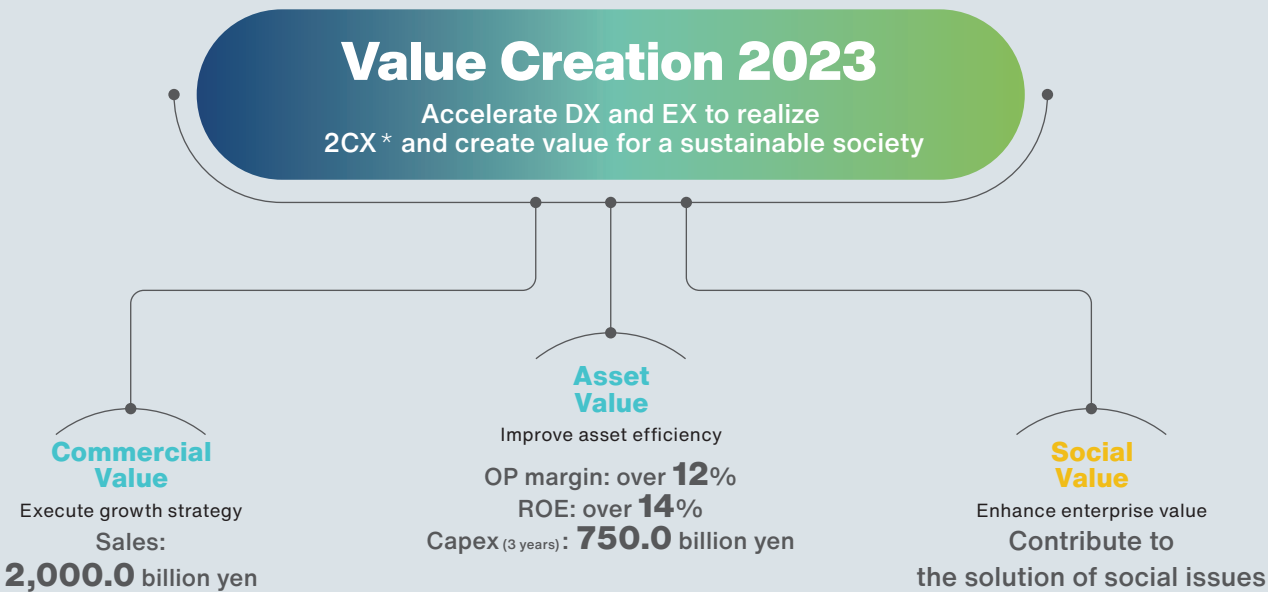


* The graph above shows a representation of the transition of major applications in society and changes in TDK's business and sales.

Medium-Term Plan: Value Creation Cycle



Corporate Strategy Targets until FY 2024 (ending March 31, 2024)



*2CX:Customer and Consumer Experience

Management Target in Medium Term

Net Sales (Yen billions)	FY March 2021 Result	FY March 2024 Target	CAGR	
	1,479.0	2,000.0	11%	
Segment / CAGR	Passive Components	7%	Magnetic Application Products	12%
	Sensor Application Products	25%	Energy Application Products	11%

Digital Solutions for DX Electronic components supporting digital transformation

Data storage	HDD heads, industrial storage
Transducers	Temperature sensors, pressure sensors, Hall ICs, TMR magnetic sensors, MEMS sensors, MEMS microphones, piezo actuators
Electronic components	5G high-frequency components, RF inductors, noise-suppression components, anti-heat components, anechoic chambers and EMC measurement systems

Energy Solutions for EX Electronic components supporting the effective use of energy

Energy storages	Small and medium-sized rechargeable batteries
Power supplies	Bi-directional power supplies, programmable power supplies, high-quality medical and industrial power supplies, EV power supplies (DC-DC, onboard chargers)
Motors and generators	Magnets for EVs and wind power generators
Electronic components	Automotive MLCCs, high capacitance MLCCs, power inductors, transformers

Resetting of the TDK's Materiality

As a part of Medium-Term Plan, TDK has reset the TDK Group's materiality. For more details, please refer to P13 & 14.

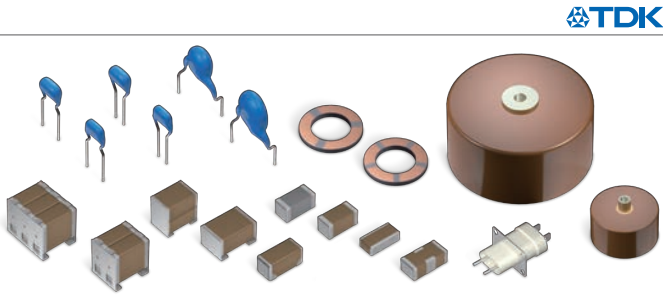
TDK's versatile product lineup

* The product lineup logomarks indicate product brands

Passive Components

Ceramic capacitors

Used for noise suppression and signal processing in a wide range of electronic devices indispensable for daily life. More than 3,000 multilayer ceramic chip capacitors, the most commonly used type of ceramic capacitors, can be found in a single automobile, and use is expected to increase even further in the future.

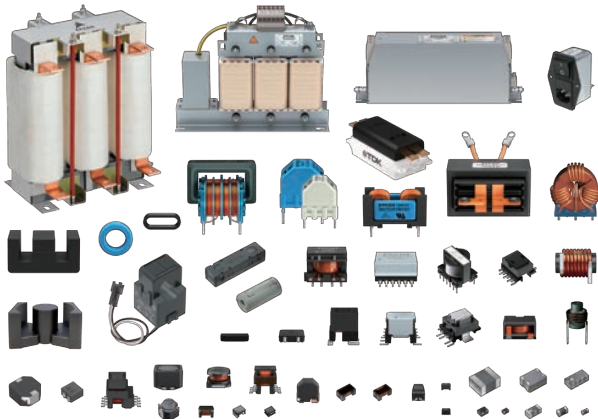


TDK

Inductive devices



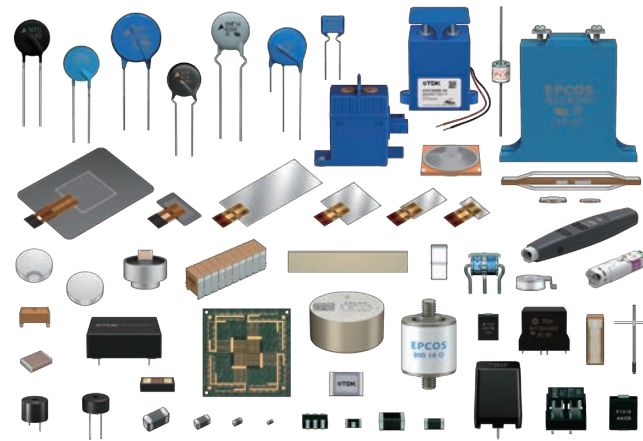
The lineup includes inductors of different types including wire-wound, multilayer, and thin-film, as well as transformers and noise countermeasure components. These contribute significantly to fuel economy in cars, higher efficiency in communication systems, as well as higher sensitivity and longer battery life in smartphones.



Piezoelectric material products, circuit protection devices



Piezoelectric materials application products such as the small piezo actuators are available for high-precision drives. Other key items in this area are circuit protection devices such as varistors and arrestors.

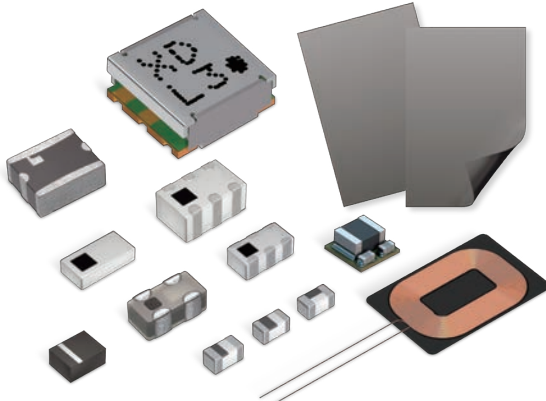


High-frequency components



TDK supplies high-frequency components and modules based on advanced technologies such as LTCC technology, thin-film technology, ferrite material technology and SESUB technology. Ongoing development of new products in this area contributes to the world's most advanced mobile devices.

LTCC: Low Temperature Co-fired Ceramic multilayer substrate
SESUB: Semiconductor Embedded in SUBstrate



Aluminum electrolytic capacitors and film capacitors



Aluminum electrolytic capacitors feature high capacitance and come in various types, such as large products for industrial equipment, higher liability axial lead types for automotive applications, etc. Film capacitors have high voltage and low loss characteristics and are used in many different applications.



Sensor Application Products

Sensors

The lineup includes temperature sensors, pressure sensors, TMR angle sensors and Hall sensors, current sensors and various other sensors that are essential for realizing multifunction capability in electronic devices, improving the functionality of automotive electronics, and driving progress in factory automation and office automation. Furthermore, TDK offers a variety of motion sensors including acceleration and gyro sensors, along with ultrasonic Time-of-Flight, atmospheric pressure sensors and similar, providing added value to ICT and industrial applications.



Magnetic Application Products

HDD magnetic heads and suspensions



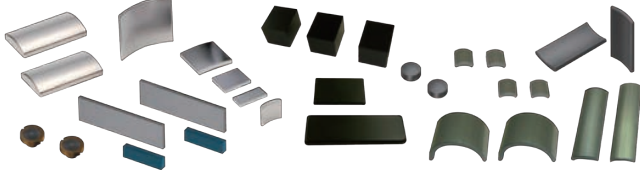
TDK's high-performance magnetic heads have continuously supported increases in HDD recording capacity for many years. TDK will continue contributing to even higher recording capacities by new magnetic head technologies that incorporate energy assist recording methods.



Magnets



In addition to ferrite magnets and neodymium magnets, TDK also offers heavy rare earth free magnets. These contribute to energy and resource conservation and higher efficiency in the automotive sector as well as infrastructure and industrial equipment.

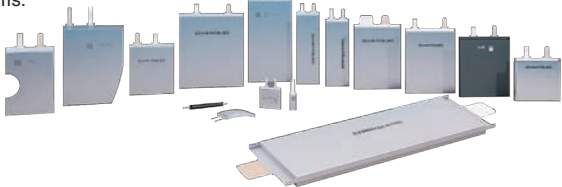


Energy Application Products

Energy devices



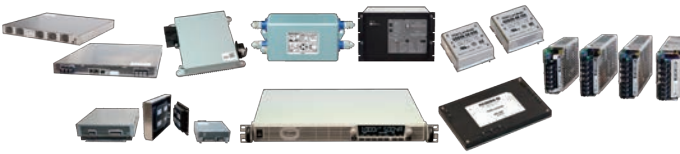
TDK contributes to the energy storage in many instances, ranging from low-profile lithium ion batteries in tiny devices such as smartphones to the massive high-capacity lithium ion batteries of solar power generation systems.



Power supplies



Designed mainly for industrial equipment, the lineup includes AC-DC switching power supplies, programmable power supplies, DC-DC converters, and power supplies for charging storage batteries. Automotive DC-DC converters and on-board chargers for xEV are also available.



Other

Flash memory applied devices



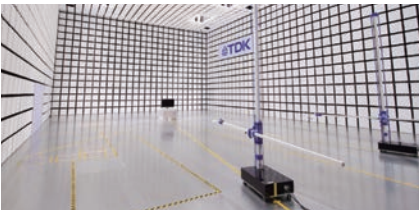
TDK supplies solid state drives (SSDs) and CFast cards and SD memory cards with proprietary memory control chips for industrial use. For example, these can be found in communication base stations and traffic control systems, providing support for the age of Big Data.



Anechoic chambers



Anechoic chambers from TDK have gained an excellent reputation around the world as top-level tools for measurement accuracy, efficiency, and reliability. TDK also offers EMC solutions comprising highly accurate EMC measurement services to support effective noise countermeasures.



Factory automation equipment



TDK's expertise in mechatronics gained in the production of outstanding electronic components is available in the form of production equipment. We provide Load Ports for various wafer sizes and Flip Chip Bonding Systems as well as a range of other advanced factory automation equipment.



For details, please visit the Product Center on the TDK website

Product Center

Search



Five core competences for creating cutting-edge electronic components

Materials Technology

The culmination of over 85 years of experience and know-how

Advanced materials technology pursues the characteristics of the source material from the atom level on up, to meet highly sophisticated needs. Control of main raw material composition as well as microadditives is an effective approach for achieving specific targeted properties. In over 85 years of operation, TDK has accumulated an enormous wealth of experience and knowledge that leaves competitors far behind.

Process Technology

realizes control on the nanometer level.

Process technology is the science of getting the best out of the characteristics of the material. Thin-film technology and spintronics are just two examples where manipulation on the order of nanometers is employed to create state-of-the-art electronic components. For example, thin-film technology is applied for the formation of electrodes, coils, and head elements on wafers to produce HDD heads, sensors, actuators, and similar products.

5
CORE
TECHNOLOGIES

Evaluation & Simulation Technology

is applied to accurately measure and analyze ultra-fine structure and noises by electronic devices.

Even the most advanced materials and process technology would not lead to successful product development without accurate and trustworthy analysis and simulation techniques. Starting from material analysis, TDK evaluation and simulation technology is widely applied to assess structural and thermal aspects, analyze electromagnetic field properties, and perform noise measurement and design noise countermeasures using an anechoic chamber.

Production Engineering Technology

Outstanding facilities developed and manufactured in-house

Excellent products can only come from excellent manufacturing facilities. TDK not only develops innovative manufacturing techniques but realizes these by building much of the required equipment in-house. This comprehensive approach is the key to superior Monozukuri craftsmanship. We supply services meeting market needs by better quality, lower cost, shorter lead times and promoting integrated production from materials to finished products.

Product Design Technology

combines expertise with innovation to create new ideas.

Product design uses insight into how our products are used, integrating materials and electronic components from our many product lines, to create electronic devices and modules with safe, optimal configurations. It also encompasses software design that harnesses the full features of those devices and modules. Additionally, TDK supplies energy devices which combine power conversion, storage, and energy control functions. These integrated solutions have quickly become crucial for life in a sustainable society.

Four Great World-Class Innovations by TDK

Innovation

01

Ferrite



Innovation

02

Music cassette tapes



Innovation

03

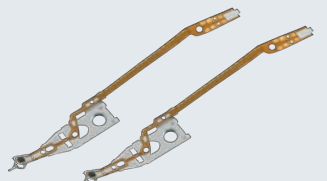
Fine multilayering technology



Innovation

04

Thin-film head technology





Aiming to promote both a sustainable society and corporate growth

TDK Group's sustainability vision

Various issues exist in the society surrounding the TDK Group, including environmental problems, such as climate change, energy, exhaustion of resources, and social problems, such as aging and the digital divide. TDK seeks to contribute to the solution of these problems and the building of a sustainable society for future generations.

As well as our fundamental stance of aiming to solve social issues through our business on the basis of our corporate philosophy, we have formulated the TDK Group's Sustainability Vision, which proclaims that by fully utilizing TDK's proprietary core technologies and solutions, we will "advance the development of a sustainable society and champion well-being for all people." We are sharing this vision throughout the Group, putting it into practice in our business, and considering and implementing specific measures toward the realization of a happy society.

The TDK Group's Materiality

TDK identifies the TDK Group's materiality, spotlighting key issues that should receive priority investment of the organization's management resources and be tackled in order to achieve the Medium-Term Plan and realize both the sustainability of society and sustained corporate growth. By rotating the PDCA cycle for this materiality, we will tackle the solution of social problems raised in the Sustainable Development Goals (SDGs), thereby creating value for society and strengthening the foundations for value creation.



"Technology for well-being of all people"

TDK Group strives to restore and protect the global environment while promoting respect for human rights. Through its innovative core technologies and solutions, TDK Group advances the development of a sustainable society and champions well-being for all people.

EX

Energy transformation

Contribution to energy and environmental solutions by minimizing waste heat and noise with electronic devices

- Effective use of energy and expanding use of renewable energy toward the realization of net zero CO₂ emissions in 2050
- Provide products and solutions for creating clean energy to realize a zero-carbon society
- Provide products and solutions for realizing an efficient energy society by storing, converting, and controlling energy

DX

Digital transformation

Promotion of the digitization of society by adding software technology to material science and process technology

- Provide products and solutions to help build resilient communication network infrastructure
- Provide products and solutions for supporting robotics and mobility to promote human capability enhancement and complementation
- Promote digitalization at TDK

Quality Management

- Pursue zero-defect product quality
- Reduce quality costs
- Maximize customer satisfaction with product and service quality

HR Management

- Develop human resources to lead the TDK Group
- Foster greater diversity and inclusion
- Improve employee engagement and job satisfaction to attract and retain talented employees

Supply Chain Management

- Enhance global procurement capabilities and mechanisms
- Ensure responsible procurement
- Ensure societal and environmental consideration in the supply chain

Opportunity & Risk Management

- Identify and capture business opportunities effectively by strengthening marketing capability with full use of digital technology
- Strengthen the group's risk management capabilities

Pursuing Both Delegation of Authority and Internal Controls

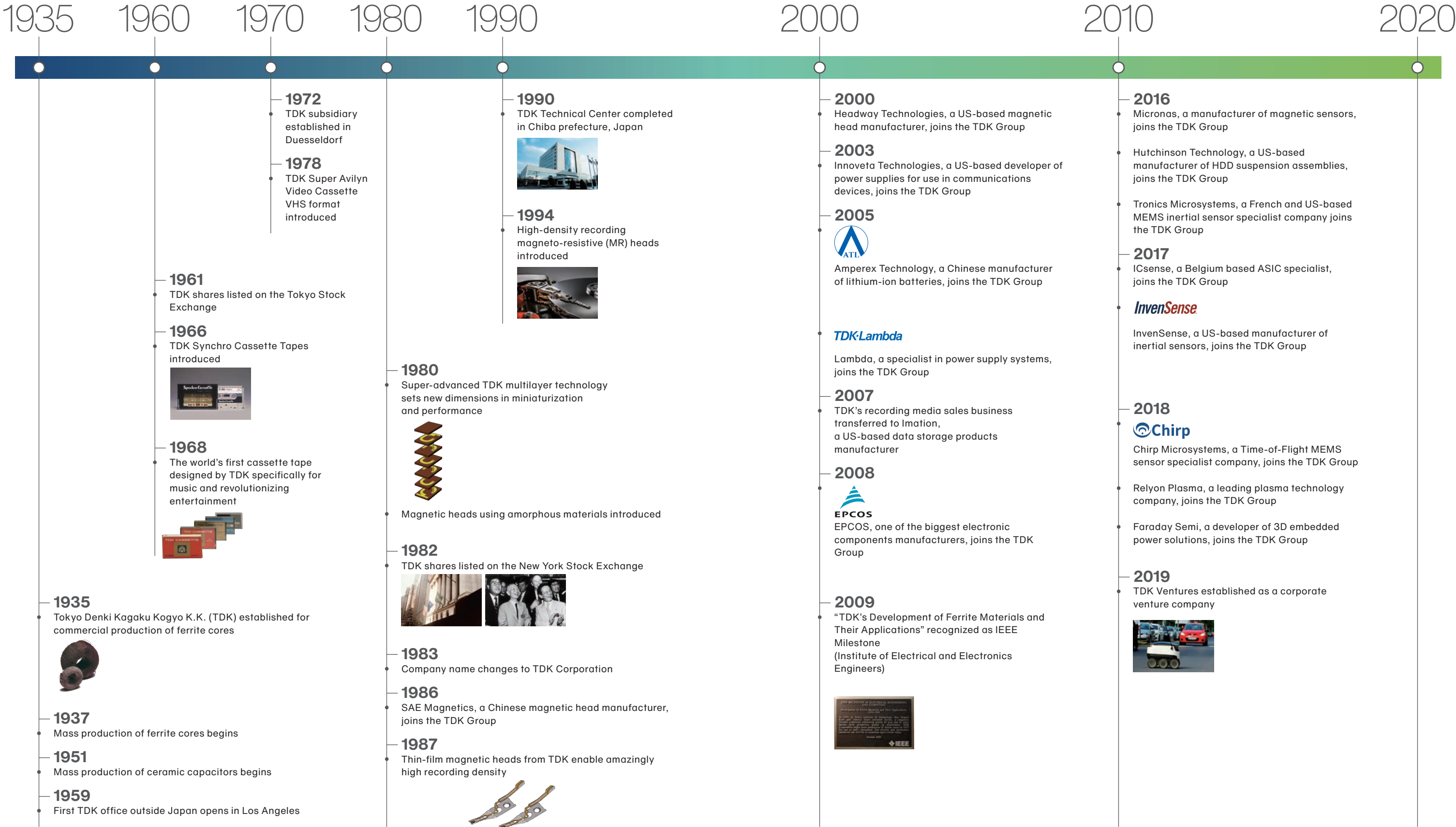
- Ensure speed and transparency in operations, based on the clearly defined roles, authorities and responsibilities of each organization
- Make management systems of each group company more effective and efficient, aligned with the group's unified policy
- Implement appropriate post-merger integration (PMI) for acquired companies

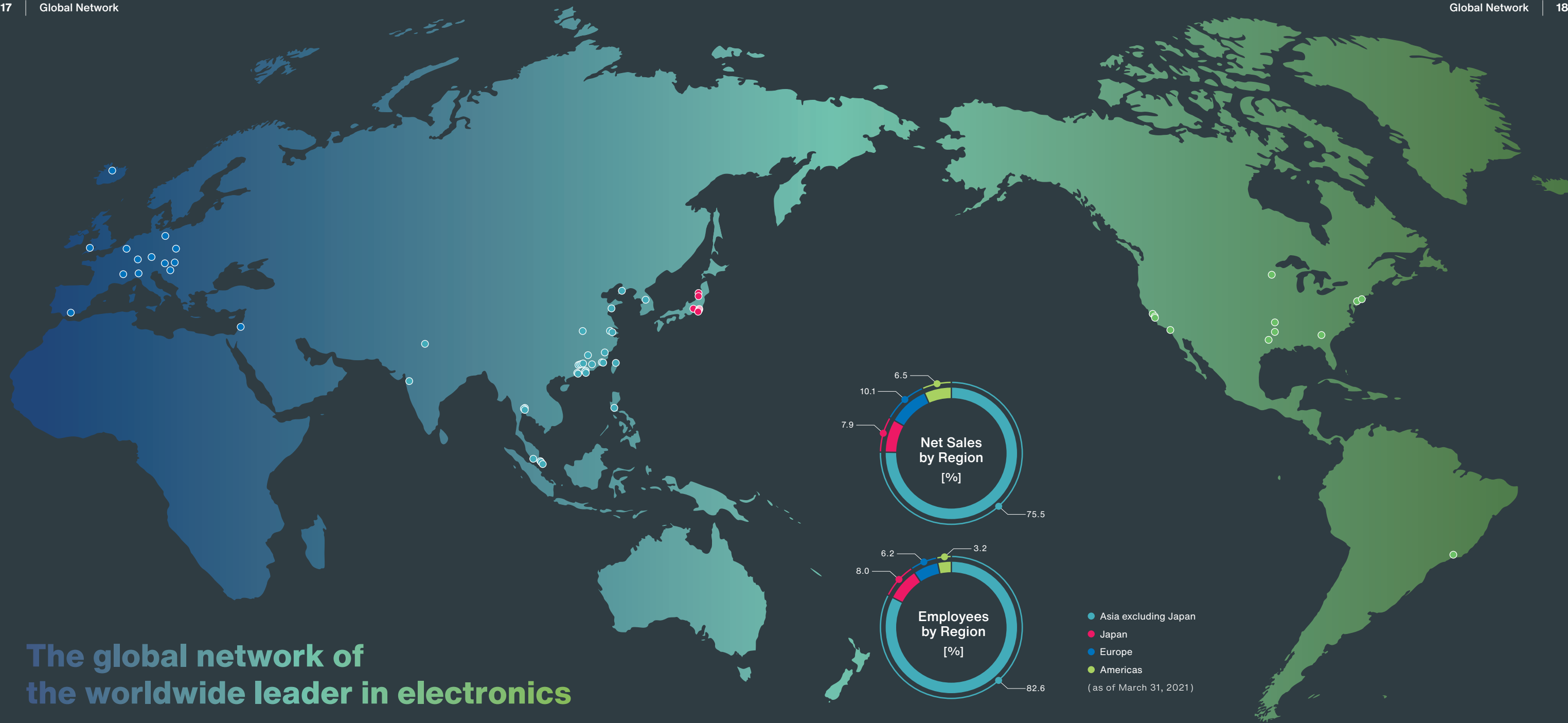
Asset Efficiency Improvement

- Rebuild business portfolio
- Optimize facilities and manufacturing sites



More than 85 years of history





The global network of the worldwide leader in electronics

EMEA

- ICsense NV (Belgium)
 - relyon plasma GmbH (Germany)
 - TDK CROATIA d.o.o. (Croatia)
 - TDK Electronics AG (Germany)
 - TDK Electronics Components, S.A.U. (Spain)
 - TDK Electronics GmbH & Co OG (Austria)
 - TDK Electronics s.r.o. (Czech)
 - TDK Foil Iceland ehf (Iceland)
 - TDK Foil Italy S.p.A. (Italy)
 - TDK Hungary Components Kft. (Hungary)
 - TDK-Lambda Ltd. (Israel)
 - TDK-Lambda UK Ltd. (UK)
 - TDK-Micronas GmbH (Germany)
 - TDK Sensors AG & Co. KG (Germany)
 - Tronics Microsystem SA (France)
- *EMEA: Europe, the Middle East and Africa

Greater China & Other Asia

- Acrathon Precision Technologies (HK) Ltd. (Hong Kong)
 - Amperex Technology Ltd. (Hong Kong)
 - Dongguan Amperex Technology Ltd. (Dongguan)
 - Dongguan NVT Technology Co., Ltd. (Dongguan)
 - Guangdong TDK Rising Rare Earth High Technology Material Co., Ltd. (Meizhou)
 - Hutchinson Technology Operations (Thailand) Co., Ltd. (Thailand)
 - Magnecomp Precision Technology Public Co., Ltd. (Thailand)
 - Navitasys India Private Ltd. (India)
 - Ningde Amperex Technology Ltd. (Ningde)
 - Poweramp Technology Ltd. (Dongguan)
- PT. TDK ELECTRONICS INDONESIA (Indonesia)
 - Qingdao TDK Electronics Co., Ltd. (Qingdao)
 - SAE Magnetics (H.K.) Ltd. (Hong Kong)
 - TDK Dalian Corporation (Dalian)
 - TDK Dongguan Technology Co., Ltd. (Dongguan)
 - TDK Electronics (Malaysia) SDN. BHD. (Malaysia)
 - TDK Ganzhou Rare Earth New Materials Co., Ltd. (Ganzhou)
 - TDK India Private Ltd. (India)
 - TDK Korea Corporation (Korea)
 - TDK-Lambda (China) Electronics Co., Ltd. (Wuxi)

- TDK-Lambda Malaysia Sdn. Bhd. (Malaysia)
- TDK (Malaysia) Sdn. Bhd. (Malaysia)
- TDK Philippines Corporation (Philippines)
- TDK (Suzhou) Co., Ltd. (Suzhou)
- TDK Taiwan Corporation (Taiwan)
- TDK (Thailand) Co., Ltd. (Thailand)
- TDK Xiamen Co., Ltd. (Xiamen)
- TDK (Xiamen) Electronics Co., Ltd. (Xiamen)
- TDK (Xiaogan) Co., Ltd. (Xiaogan)
- TDK (Zhuhai) Co., Ltd. (Zhuhai)
- TDK (Zhuhai FTZ) Co., Ltd. (Zhuhai)

Japan

- TDK Corporation
- TDK-Lambda Corporation
- TDK Akita Corporation
- TDK Shonai Corporation
- TDK Kofu Corporation
- TDK Precision Tool Corporation
- SolidGear Corporation

Americas

- Chirp Microsystems, Inc. (U.S.A.)
- Faraday Semi, Inc. (U.S.A.)
- Headway Technologies, Inc. (U.S.A.)
- Hutchinson Technology Inc. (U.S.A.)
- InvenSense, Inc. (U.S.A.)
- TDK Components U.S.A., Inc. (U.S.A.)
- TDK Electronics do Brasil Ltda. (Brazil)
- TDK Ferrites Corporation (U.S.A.)
- TDK-Lambda Americas Inc. (U.S.A.)
- TDK RF Solutions Inc. (U.S.A.)
- TDK U.S.A Corporation (U.S.A.)
- Tronics MEMS, Inc. (U.S.A.)

The locations on this list include HQs, major production and R&D bases as of June 1, 2021.

Attracting Tomorrow

TDK's communication message "Attracting Tomorrow" implies an attitude of making deliberate efforts ourselves to attract the future, rather than just waiting for the future to arrive. Turning this stance into inspiration aimed at the realization of a harmonious society, TDK has been pursuing global branding activities in seven applications by developing and introducing innovative technologies and products. Each of these in turn will be instrumental in achieving Sustainable Development Goals (SDGs).



MEMS Motion Sensors

We have realized the industry's smallest 7-axis sensor module that combines gyroscope, accelerometer, and temperature sensing components on a single substrate. Highly accurate acceleration and direction measurement data are key to ensuring that a car will safely reach its destination.

Attractive Mobility

Motion sensors together with dedicated software can provide the acceleration and direction data that are needed to guide a car to a given destination. They also support autonomous driving technologies that can safely divert cars to the side of the road in the rare event of a failure or emergency. This holds substantial potential for the creation of a safe society with no traffic congestion or accidents.

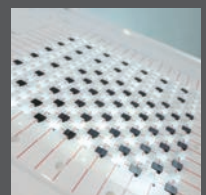


7 - Axis MEMS Motion and Pressure Sensors

The world's smallest 7-axis sensor, which combines a 6-axis inertial sensor with a pressure sensor, incorporates reliable sensing technologies that are not adversely affected even under harsh environmental conditions. This makes it possible to control drones effectively to ensure stable flight.



Investigational Device. Not currently available for sale in the U.S. or elsewhere.



Biomagnetic Field Sensors

Compact sensors that can measure even very weak biomagnetic fields enables the realization of biomagnetic field measurements without the insertion of a device into the body, something that was not possible in the past. This allows non-intrusive assessment of internal physiological activity in three dimensions.

Attractive IoT

Motion and pressure sensors are also used in drones that carry out social missions such as transporting medical supplies to remote locations or islands. The sensors contribute to stable flight performance and provide accurate position information, thereby enabling drones to perform critical tasks in various places around the world.

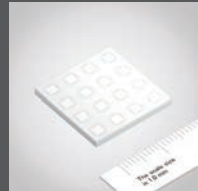


Attractive Wellness

We created a compact biomagnetic sensor by integrating MR* element process know-how gained in the magnetic head sector with magnetic circuit design technologies. Such sensors are ideal for devices that are more compact than existing products, making it feasible to perform diagnostic tasks with minimal stress for patients.

* MR = Magneto-resistive





5G Chip Antennas / Multilayer Band Pass Filters

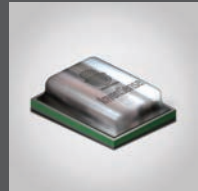
RF (radio frequency) components with enhanced filtering and maximized total performance will empower our customers to create superior products with less effort. We are developing products for all 5G applications such as infrastructure, autonomous driving, and tele-medicine.reach its destination.



Attractive Connections

With 5G, musicians can enjoy live music while playing with each other in real time, despite being in different locations.

TDK has integrated filtering functionality in antennas that receive and transmit radio waves. Minimizing losses and ensuring high efficiency in this area significantly contributes to high-volume data communication.



MEMS Microphones

The application of silicon MEMS technology has enabled the development of MEMS microphones which operate on very low power while featuring a high clipping point. This makes it possible to design communication robots with superior sound perception capabilities.



Attractive Robotics

Robots equipped with MEMS microphones can detect voices and other sounds at relatively large distances, and the use of multiple microphones also enables the robot to identify the direction where the sound is coming from. Such applications will help hearing-impaired individuals and make it easier for persons with limited mobility to obtain help during an emergency.



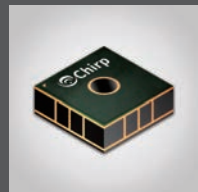
Power Electronic Capacitors (PECs)

Proprietary flat-winding technology helps to achieve high capacities while keeping dimensions compact. With a view towards the future, we are designing low-inductance capacitors suitable for high switching frequencies that will contribute to increased efficiency both in power generation and power transmission.



Attractive Energy

Capacitors used in lightweight, compact, and high-reliability devices for power electronics facilitate high-efficiency generation and transmission of renewable energy and improve people's quality of life. TDK is looking to contribute to the creation of a sustainable society through clean energy.



MEMS Ultrasonic Time - of - Flight Sensors

Ultra-compact sensors can be integrated directly into headset displays to accurately assess spatial relationships. Systems using such sensors will bring interactive experiences to more and more people.



Attractive Experience

VR and AR applications have enriched experiences in education and brought about significant progress and quality enhancement in learning by children. TDK's ultrasonic sensors can detect a device's orientation, rotation, position, and other information with high precision and determine accurately the movement of a hand in a virtual space.