

SANYO DENKI

Company Profile 2018



Corporate Philosophy

We at SANYO DENKI Group Companies,
aim to help all people achieve happiness,
and work with people to make their dreams come true.

To carry out the corporate philosophy, we do the following:

For Environment...

For society and the natural environment we will help preserve the global environment and contribute to the prosperity of mankind through our corporate activities.

For Customers...

For customers and users we will create new values through technology, products and services.

For Suppliers...

For suppliers and vendors we will strive for integrated technical development and harmonious mutual prosperity through parts purchase, production contracting and joint development.



For Investors...

For investors and financial institutions we will increase our investment worth and credit through sound management policy and good access to information.

For Competitors...

For competitors and the industry we will strive to build industrial and technical development through technical alliances and competition.

For Employees...

For all of our employees we will help individuals to achieve self-fulfillment through their work and the company.



Under the corporate philosophy to “Aim to help all people achieve happiness”,
SANYO DENKI is committed to develop new technologies and products
in six sectors on the basis of three technological concepts.

Three Core Technologies



Technology for
protecting the global
environment



Technology for
protecting people's
health and safety



Technology for using
new energy sources and
saving energy



Six Sectors



Medical

Business sector that manufactures medical and nursing equipment for contributing to human health.



Information and communications

Business sector that manufactures ICT equipment such as computers, communications equipment, and their peripheral devices.



Industrial

Business sector that manufactures industrial automation equipment such as machine tools and robots.



Environmental protection

Business sector that manufactures equipment for promoting the protection of the global environment.



Home automation

Business sector that manufactures equipment for improving lifestyle.



Energy utilization

Business sector that manufactures equipment for electric power generation and conversion, energy saving, and new energy utilization.



San Ace

COOLING SYSTEMS

New Products



Blower

San Ace B97

This is a high static pressure fan that blows in the direction perpendicular to the suction direction. As air is discharged in a direction different from the suction direction, it can be installed in a narrow space inside devices. It is suitable for servers, power supplies, printers, copy machines, air purifiers, house ventilation devices, and fuel cells.



Splash Proof Centrifugal Fan

San Ace 225W

This fan sends out a large amount of airflow in the radial direction and also features an IP56-rated waterproof and dustproof performance. You can make an efficient wind flow that matches the shape inside the device. It is suitable for the ventilation of large spaces and dust suction use; in outdoor-installed ICT equipment, renewable energy inverters, refrigeration units, dust collectors, and air conditioners.



Counter Rotating Fan

San Ace 40

The impellers of two fans rotate in opposite directions to deliver high airflow and high static pressure. It is suitable for high-density equipment such as servers, power supplies, ICT devices, and storages.

Product Lineup



DC Cooling Fan

All of our DC fans feature high reliability and high cooling performance. In addition to standard DC cooling fans, the product lineup includes fans with various features, such as Counter Rotating Fans, Centrifugal Fans, Blowers, and Low Power Consumption Fans. These are suitable for cooling servers, storage, ICT equipment, and the like.

- DC Cooling Fan
- Low Power Consumption Fan
- Silent Fan
- Counter Rotating Fan
- Centrifugal Fan
- Blower
- Reversible Flow Fan



Endurance Fan

Endurance fans are DC fans with environmental durability. The series lineup has the Wide Temperature Range Fans for use in a temperature range of -40°C to +85°C, Splash Proof Fans for use in water-exposed environments, Long Life Fans for extended operation of 20 years or more, Oil Proof Fans for use in oil mist environments, and other fans

that ensure stable operation in severe environments.

- Wide Temperature Range Fan
- Splash Proof Fan
- Splash Proof Centrifugal Fan
- Oil Proof Fan
- Long Life Fan
- Long Life Counter Rotating Fan
- G Proof Fan

Product Application Examples

Server



DC Cooling Fan



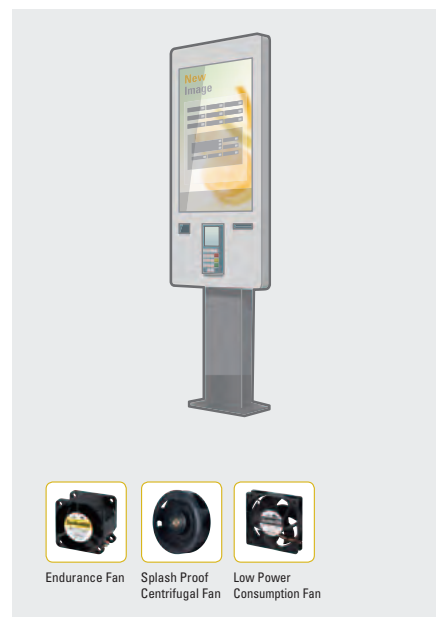
Counter Rotating Fan



High Static Pressure Fan

Servers in data centers have high component densities and thus generate great amounts of heat. Fans featuring high airflow and high static pressure are suitable for cooling such devices.

Digital Signage



Endurance Fan



Splash Proof Centrifugal Fan



Low Power Consumption Fan

As digital signage consumes much electricity and emits a lot of heat, it requires efficient cooling fans with low power consumption ratings. Also, it requires waterproof and dustproof performance as it may be installed outdoors as well as indoors. Therefore, our Low Power Consumption Fans, Splash Proof Fans, and Splash Proof Centrifugal Fans are suitable for this use.



G Proof Fan
San Ace 172GP

These cooling fans can withstand high levels of G-force. These are suitable for CT scanners and other devices subject to high G-force or vibration.



AC Cooling Fan

These are long life, high reliability AC cooling fans. In addition to standard AC cooling fans, the lineup includes ACDC fans which internally convert AC power to DC power. They are suitable for the cooling of ICT equipment, control panels, and FA related devices.

- ACDC Fan
- AC Fan



Cooling Fan Unit

Cooling fan units have multiple fans embedded in steel sheets or trays. Customized units can be built to satisfy customer requests.



Measuring Device, Controller

The Airflow Tester enables the selection of the optimal fan for your device. The PWM Controller provides easy control of fan speed.

SANUPS

POWER SYSTEMS

New Products



UPS (Uninterruptible Power Supply) (Standby UPS)

SANUPS N11B-Li

This UPS is equipped with lithium-ion batteries. It has a wide operating temperature range and operates stably even in extreme temperature environments. Also, its IP65-rated waterproof and dustproof performance ensures the safe operation outdoors. It is ideal for use in data centers, communication base stations, and outdoor surveillance cameras.



PV Inverter

SANUPS P73L

This is a PV inverter combined with lithium-ion batteries. This PV inverter can combine the battery power with PV-generated power to supply a maximum of 60 kVA to loads during outages. Moreover, this product can store commercial power in the lithium-ion batteries at night for use together with the power obtained from PV power generation during daytime.



Power Conditioner for Wind Power and Hydro Power Generation Systems

SANUPS W73A

This product converts the power generated by wind power and hydroelectric power generation systems. The optimal setting for a given generation system can be easily configured to achieve efficient power generation at wind wheel or water turbine generators. Moreover, it features superior waterproof and dustproof performance with an IP65 rating.

Product Lineup



UPS (Uninterruptible Power Supply)

This device constantly supplies power so that a system can function stably without abnormal stoppages or damage in the event of a power outage. UPSs are ideal for the backup power of information systems, financial systems, or other devices that require continuous and stable operation.

- Online UPS
- Hybrid UPS
- Parallel Processing UPS



PV Inverter

This device supplies power by converting DC power generated by photovoltaic generation systems into AC power. For use in public facilities and industrial installations. Also, with internet access and the "SANUPS NET" cloud service, PV system status can be monitored from devices such as computers or smartphones.



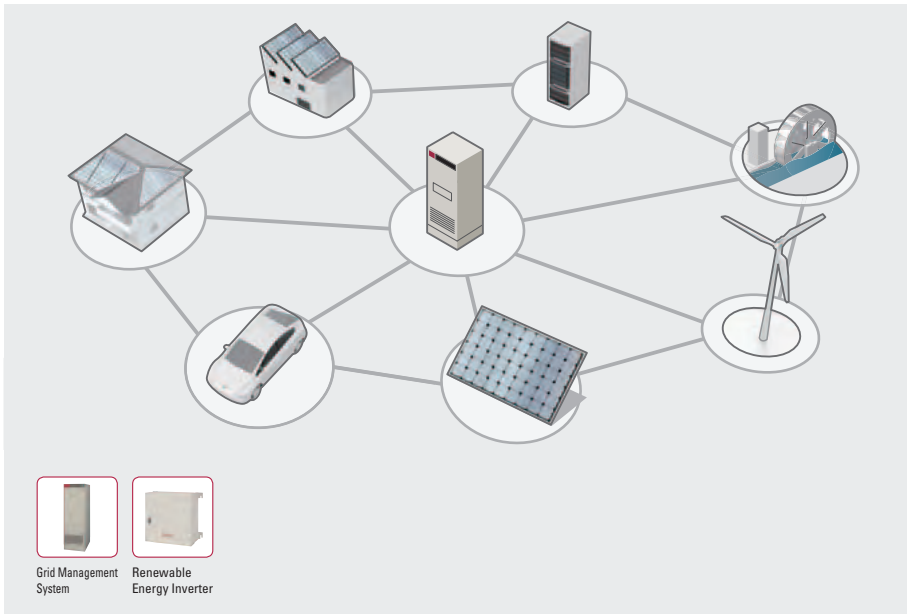
Grid Management System

This unit enables efficient electricity use within a microgrid small-scale energy network. One of its main features is storing excess power generated from distributed energy sources, such as photovoltaic and wind power, in lithium-ion or other types of batteries to use power economically.



Product Application Examples

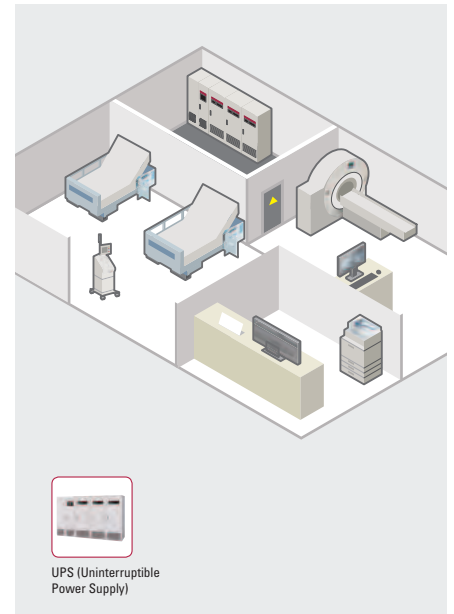
Smart Grid



The smart grids are energy networks aimed at the full utilization of electricity by managing the power supply side and demand side resources with ICT. The supply side resources include utility-scale power generation and distributed resources such as photovoltaic, hydroelectric, and wind power generation systems; the demand side resources include buildings, factories, and general households. Making full use of renewable energy for a smart grid will require

not only to raise the amount of power generation, but also to store the generated electricity in storage batteries as well as to consume it. Our products suitable for such networks include: renewable energy inverters equipped with storage batteries, ones with high efficiency and environmental durability, and grid management devices that can manage the flow of electric power.

Electrical Installations in Medical Buildings



Devices used in medical locations are required to operate with no interruption. Device damage and malfunction caused by power outages or voltage sags could interrupt an analysis or force its restart. To prevent such risks, UPSs are ideal because they can supply power without interruption.



Peak Cut Device

Large machine tools and conveyor systems require a large amount of instantaneous electric power to drive motors. The Peak Cut Device can reduce the peak power of the distribution system by discharging the stored energy at the motor startup, thus keeping the capacity of the distribution system to the minimum necessary.



Inverter

This inverter converts DC to stable AC power. The inverter provides the highest possible stability by maintaining a one unit reserve capacity. It prevents equipment malfunction due to waveform disturbance by outputting complete sine waves, making it essential for use in ICT equipment.



Static Transfer Switch

This static transfer switch can supply dual power to routers or other systems that can only accept a single incoming power source. It can supply dual commercial power supply lines or dual UPS power supplies to a single-input load. It is suitable for important equipment such as ICT equipment requiring reliability.



Power Generation Vehicle

This mobile power supply vehicle can be used as emergency power for infrastructure equipment or temporary power at outdoor events. Parallel operation of up to three vehicles can be performed.

SANMOTION

SERVO SYSTEMS

New Products



AC Servo Motor SANMOTION R

These are high-performance AC servo motors. These feature higher torque and motor speed than the previous models, contributing to shortening device takt time and improving productivity. These are suitable for spring forming machines, PCB drilling machines, robots, and other devices that require agile movement.



Closed Loop Stepping Driver SANMOTION Model No.PB

This is a 4-axis DC stepping driver with EtherCAT interface. A battery-less absolute encoder is available for simplified maintenance as it doesn't require battery replacements. Capable of controlling multiple motor axes simultaneously, this driver is suitable for applications such as semiconductor related equipment, laser cutting machines, and general industrial machinery.



AC Servo Amplifier SANMOTION R 3E Model

This AC servo amplifier series pursues 3 E's: evolved performance, eco-efficiency, and ease of use. We have newly added 400 VAC input models and models equipped with EtherCAT interface and safety functions to the series lineup. With availability in amplifier capacities ranging from 10 to 600 A, you can build the optimum system for your equipment. These are suitable for semiconductor manufacturing equipment, machine tools, and general industrial machinery.

Product Lineup



AC Servo Systems

These are high-accuracy, high-performance servo systems. These achieve high-speed and accurate positioning with vibration suppression function, thereby shortening takt time. The lineup also includes spindle motors featuring large torque even at low speeds. These are suitable for high-speed, high-precision devices such as semiconductor manufacturing equipment, robots, and machine

tools. With a wide variety of models available, you can build the optimum system for your device.



DC Servo Systems

These are servo systems featuring low vibration and low noise. These systems operate stably at low speeds and achieve highly accurate positioning by combining a high-resolution encoder. In addition, it is easy to set up optimum drive settings for your equipment with control functions and various user support functions. These are suitable for measuring instruments, general industrial machinery, and the like.

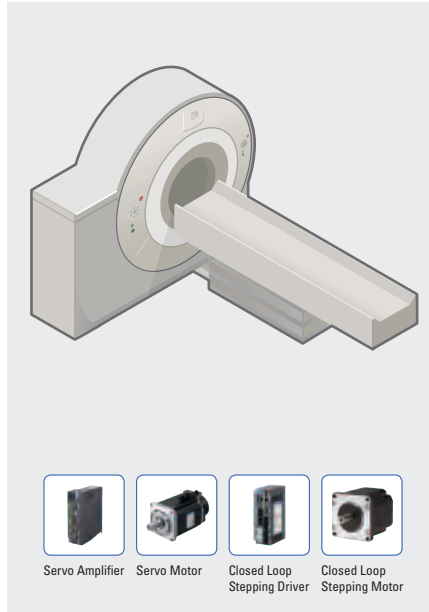
Product Application Examples

Articulated Robots



Articulated robots used in factories require highly accurate driving. Our products suitable for these robots include our motion controllers capable of precise robot control and high-speed servo motors with accurate positioning.

CT Scanner

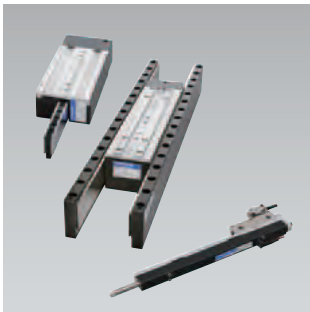


CT scanners used in the medical field are required to operate quietly and with less vibration to give patients peace of mind. Our products suitable for those devices include: servo amplifiers capable of high-speed and accurate positioning, servo motors and closed-loop stepping motors that can operate smoothly with low vibration and low noise.

Surveillance Camera



A surveillance camera is installed outdoors as well as indoors. Our products suitable for this application include: stepping motors with high waterproof and dustproof performance or closed loop stepping motors that will not step-out with excessive loads.



Linear Servo Systems

These servo motors move in straight lines. Compared with rotational motors, linear servo systems have higher speed and higher accuracy, which improves productivity. There is no need to use a ball screw to create straight-line motion so systems can be simplified. Linear servo systems are suitable for applications requiring high speed and high accuracy, such as semiconductor manufacturing equipment and chip mounters.



Stepping Systems

These stepping systems achieve high-accuracy positioning with simple control. In addition to 2-phase stepping systems, 3-phase stepping systems, and 5-phase stepping systems, our lineup includes closed loop stepping systems that offer all the advantages of both AC servo systems and stepping systems. Stepping systems are suitable for a wide range of applications, including

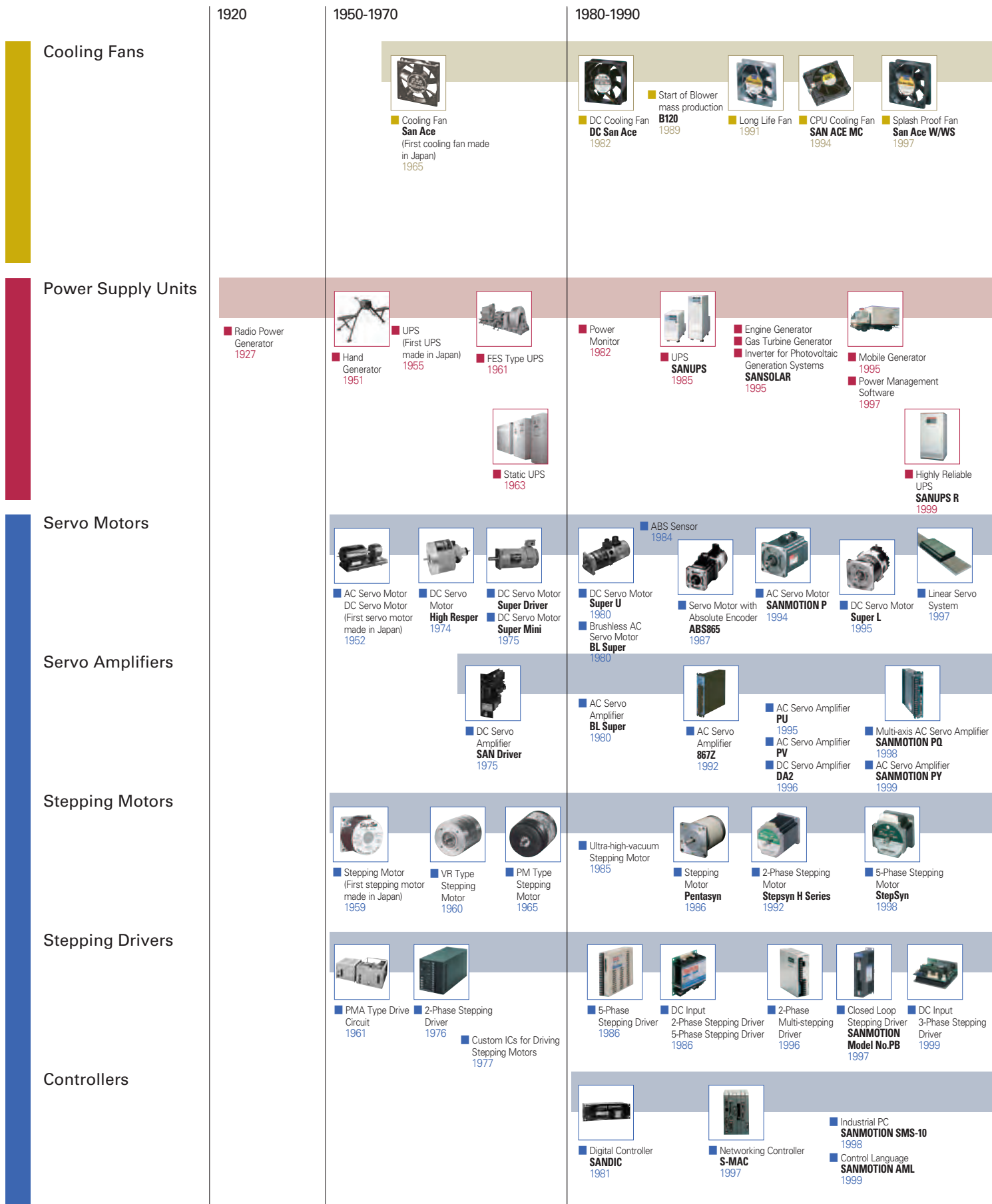
semiconductor manufacturing equipment, chip mounters, analysis/inspection equipment in the medical and environmental fields, ATMs, and surveillance cameras.

- Closed Loop Stepping Systems
- 2-Phase Stepping Systems
- 3-Phase Stepping Systems
- 5-Phase Stepping Systems

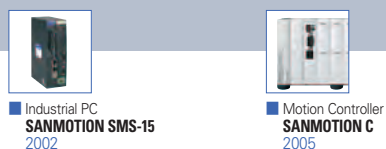
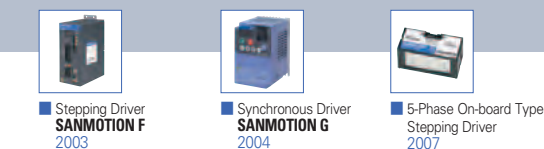
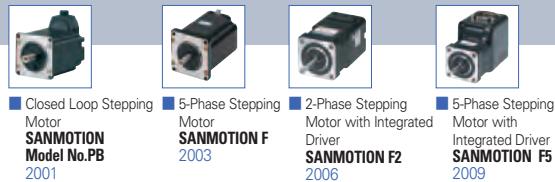
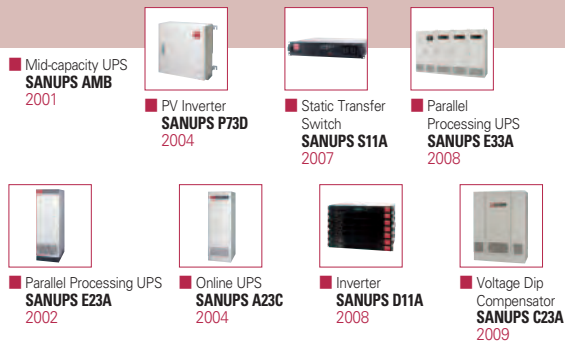


Motion Controller

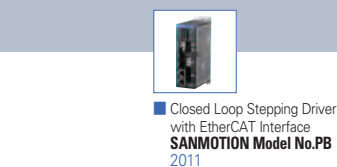
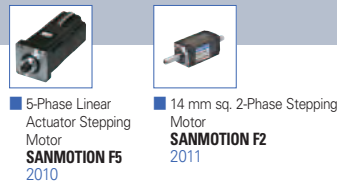
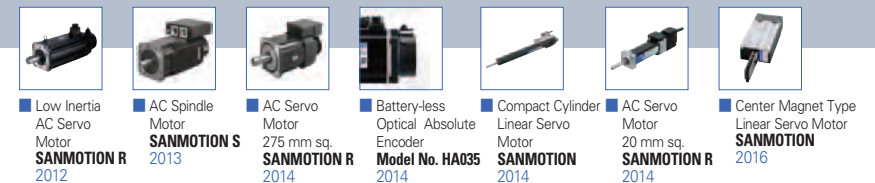
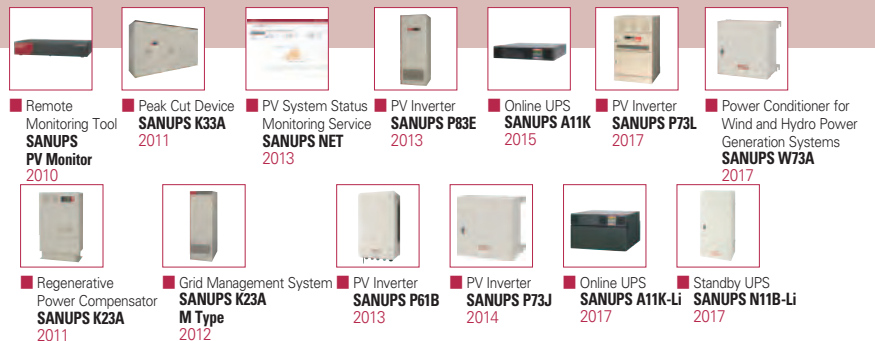
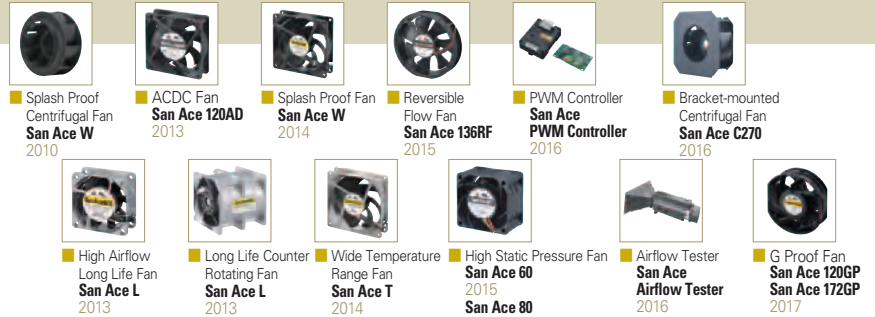
This controller combines robot system control and image processing in a single unit.



2000



2010



Location: Ueda-shi, Nagano



Kangawa Works

Total area: 67,140 m²
Number of employees: 714
ISO 9001, ISO 14001

Main Products



Motor

Kangawa Works utilizes an integrated manufacturing system to produce motors for our Servo Systems Division. Our technologically advanced machinery and equipment are efficiently arranged. Out of consideration for the environment, we have installed a rainwater treatment facility and a solar power generation system. Kangawa Works also houses the headquarters of SANYO DENKI Techno Service CO., LTD.



Fujiyama Works

Total area: 95,632 m²
Number of employees: 558
ISO 9001, ISO 14001

Main Products



Fan



Cooling Systems
Product Options



Renewable
Energy Inverter



UPS



Generator



Driver/
Amplifier



Controller

Fujiyama Works is a production site for our Cooling, Power, and Servo Systems Divisions. We use highly efficient automated production lines throughout the entire facility. We also have a solar power generation system.



Shioda Works

Total area: 6,503 m²
ISO 9001, ISO 14001

Main Products



Renewable
Energy Inverter

Shioda Works is a production site for PV inverters. We use highly reliable assembly and inspection equipment to produce high performance, rugged products.



Tsuiji Works

Total area: 11,517 m²
ISO 9001, ISO 14001

Main Products



Servo Systems
Product Options

Tsuiji Works is a production site of servo amplifier housings and options such as cables and connectors. A car maintenance center is located here, as is a distribution warehouse.

Location: Subic Bay Freeport Zone, Philippines



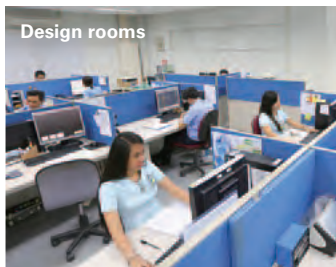
1st Works , 2nd Works



3rd Works



Design rooms



Automatic Solder Paste
Printing Machine



Surface Mounter



Automatic Optical
Inspection Machine



SANYO DENKI PHILIPPINES, INC.

Total area: 61,113 m²

Number of employees: 709

ISO 9001, ISO 14001, OHSAS 18001

Main Products



Fan



Renewable
Energy Inverter



UPS



Motor



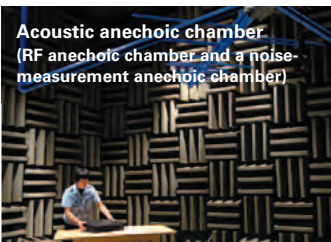
Amplifier

SANYO DENKI PHILIPPINES, INC., established in 2000, is a production site for our Cooling, Power, and Servo Systems products.

We use highly efficient automated production lines such as surface mount technology (SMT) lines.

There is also a design department for Cooling Systems products for developing and designing cooling fans.

Location: Ueda-shi, Nagano



Acoustic anechoic chamber
(RF anechoic chamber and a noise-measurement anechoic chamber)



Design rooms



Large laboratories



Laboratories

Technology Center

Total area: 44,908 m²

Number of employees: 366

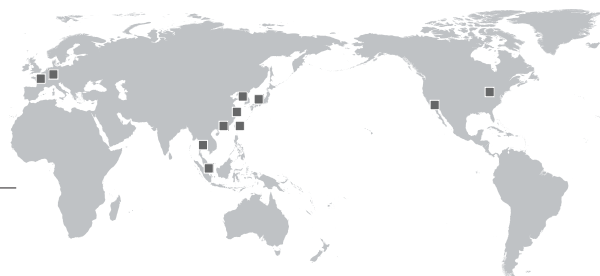
ISO 9001, ISO 14001

Technology Center is our main product research and development facility. We are constantly developing highly reliable and high performance products in close coordination with our production sites in Ueda, Nagano.

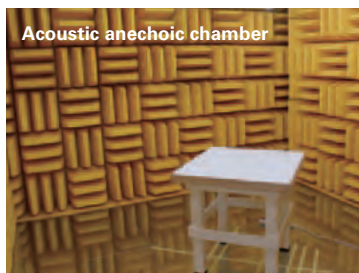
Technology Center has a vibration testing lab, high-speed testing lab, and environmental testing lab.

Technical Centers around the world

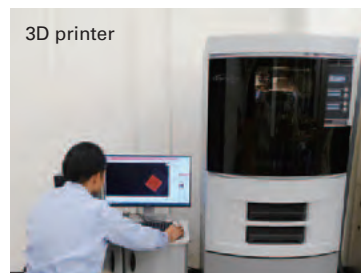
As a research and development base for our products, each technical center works to develop original products to meet local customers' needs, and conduct technical support and product maintenance.



Double chamber measuring device
(for measuring airflow and static pressure)



Acoustic anechoic chamber



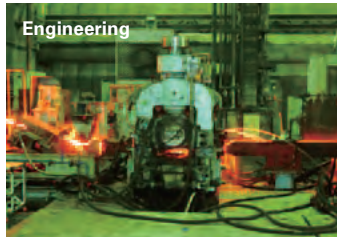
3D printer



Engineering



Engineering



Sales of electrical and electronic products



SANYO KOGYO CO., LTD.

SANYO KOGYO CO., LTD. was established in 1944, and became a member of the SANYO DENKI Group in July 2009.

It is an engineering and trading company engaged in a wide variety of business activities ranging from the sale of electronic and electrical devices, to planning and design of industrial control system, to engineering and maintenance.

Number of employees: 128

Headquarters: Kawasaki-shi, Kanagawa

Tokyo Head Office: Meguro-ku, Tokyo

Works: Kanagawa / Tokyo / Tochigi / Nagano / Osaka / Okayama / Hiroshima

Main business: Sales of electric equipment, control devices and electric materials for industrial use and electric construction.



SANYO DENKI Techno Service CO., LTD.

SANYO DENKI Techno Service CO., LTD. was established in 1999 as a member of the SANYO DENKI Group. This company supports the group's manufacturing and service activities.

Number of employees: 585

ISO 9001, ISO 14001

Headquarters: Ueda-shi, Nagano

Main business: Electronics manufacturing, repair, and maintenance; field service; logistics service; facility maintenance; recycling; solar power generation; car maintenance service; insurance agency business, etc.

PCB design



Electronics manufacturing



Environmental Policy

Basic Philosophy

SANYO DENKI helps preserve the global environment and enhance humanity's prosperity through its corporate activities for society and the environment.

Basic Policy

SANYO DENKI CO., LTD., comprising Kangawa Works, Shioda Works, Fujiyama Works, Technology Center and Head Office, develops, designs, manufactures and sells cooling fans, UPS, power conditioners for photovoltaic generation system, engine generators, servo systems, stepping systems, controllers, encoders, and driving devices. Under the principles listed below, each member of SANYO DENKI will take part in eco-friendly activities to help preserve our abundant global environment.

1. To enhance our environmental performance, we will continuously improve the environmental management system and work hard to prevent pollution and reduce the environmental impact of our activities.
2. We will assess the environmental impact of our corporate activities and focus on our environmental targets. We will also deal with the following as high-priority themes for environmental management.
 - (1) Develop, design, manufacture, and sell environment-friendly products
 - (2) Reduce or eliminate the use of hazardous chemicals
 - (3) Reduce the environmental impact (energy consumption, number of copies, waste, etc.) of business activities
 - (4) Contribute to the local community
 - (5) Protect biodiversity and ecosystem
3. We observe environmental laws, restrictions and other rules relevant to our company and work hard for environmental preservation.
4. We document, carry out and maintain our environmental principles, make them known to all our employees, and ask that our employees both cooperate in the pursuit of these principles and reflect them in our environmental management.
5. We will review the environmental management system periodically.
6. We will openly publicize the environmental principles to parties in and outside the company.

ISO 14001: Head Office, Technology Center, Kangawa Works, Fujiyama Works, Shioda Works, SANYO DENKI PHILIPPINES, INC.



On-site use of solar energy
(Photo shows Fujiyama Works)



ECO PRODUCTS are designed with the concept of lessening impact on the environment in the process from product development to waste disposal.

New ECO PRODUCTS for FY 2016

92 x 92 x 76 mm
Counter Rotating Fan
San Ace 92 9CRA type



CO₂ emissions

28% reduced

Power consumption

20% reduced

1920	Aug. 1927	Sanyo Shokai founded by Hideo Yamamoto to import and sell electrical components
1930	Jun. 1932	Sanyo Shokai Special Electric Works, a production factory of small AC and DC generators and power units for communications equipment, established in the Nishi-Sugamo (current Higashi-Ikebukuro) area of Tokyo
	Dec. 1936	Reorganized into a joint stock company (Sanyo Shokai Co., Ltd.)
1940	Apr. 1942	Renamed SANYO DENKI CO., LTD.
	Feb. 1944	Ueda factories (Ueda Kita Works, former Midorigaoka Works) established
	Dec. 1945	Head Office and Tokyo Works relocated to the Sugamo (current North Otsuka) area of Tokyo
1960	Sep. 1962	Listed on the Second Section of the Tokyo Stock Exchange
1970	Apr. 1979	Shioda Works established
1980	Mar. 1980	Tsuiji Works established
	Nov. 1984	Aoki Works established (current Logistics Center)
	Dec. 1988	SANYO DENKI EUROPE S.A. (France) established
1990	Apr. 1990	Fujiyama Works established
	Apr. 1995	SANYO DENKI AMERICA, INC. (U.S.A.) established
	Jul. 1997	Technology Center established
	Mar. 1999	SANYO DENKI Techno Service CO., LTD., established
2000	Feb. 2000	SANYO DENKI PHILIPPINES, INC. (Philippines) established
	Apr. 2003	SANYO DENKI SHANGHAI CO., LTD. (China) established
	Jun. 2005	SANYO DENKI (H.K.) CO., LIMITED (China) established
	Jun. 2005	SANYO DENKI Techno Service (Shenzhen) CO., LTD. (current SANYO DENKI ENGINEERING (Shenzhen) CO., LTD.) established.
	Aug. 2005	SANYO DENKI SINGAPORE PTE. LTD. (Singapore) established
	Oct. 2005	SANYO DENKI GERMANY GmbH (Germany) established
	Nov. 2005	SANYO DENKI KOREA CO., LTD. (Korea) established
	Dec. 2005	SANYO DENKI TAIWAN CO., LTD. (Taiwan) established
	Jan. 2008	SANYO DENKI (Shenzhen) CO., LTD. (China) established
	Jan. 2009	Kangawa Works established
	Jul. 2009	SANYO KOGYO CO., LTD. became a wholly owned subsidiary
2010	Apr. 2011	SANYO DENKI (Zhongshan) CO., LTD. (China) established
	Jul. 2011	SANYO DENKI (THAILAND) CO., LTD. (Thailand) established
	Mar. 2013	Listed on the First Section of the Tokyo Stock Exchange
	Aug. 2013	Head Office relocated to its current location
	Nov. 2014	SANYO DENKI ENGINEERING (Shanghai) CO., LTD. (China) established
	Feb. 2015	SANYO DENKI INDIA PRIVATE LIMITED (India) established



1932 Sanyo Shokai Special Electric Works established in the Nishi-Sugamo (current Higashi-Ikebukuro) area of Tokyo



1944 Ueda Kita Works established



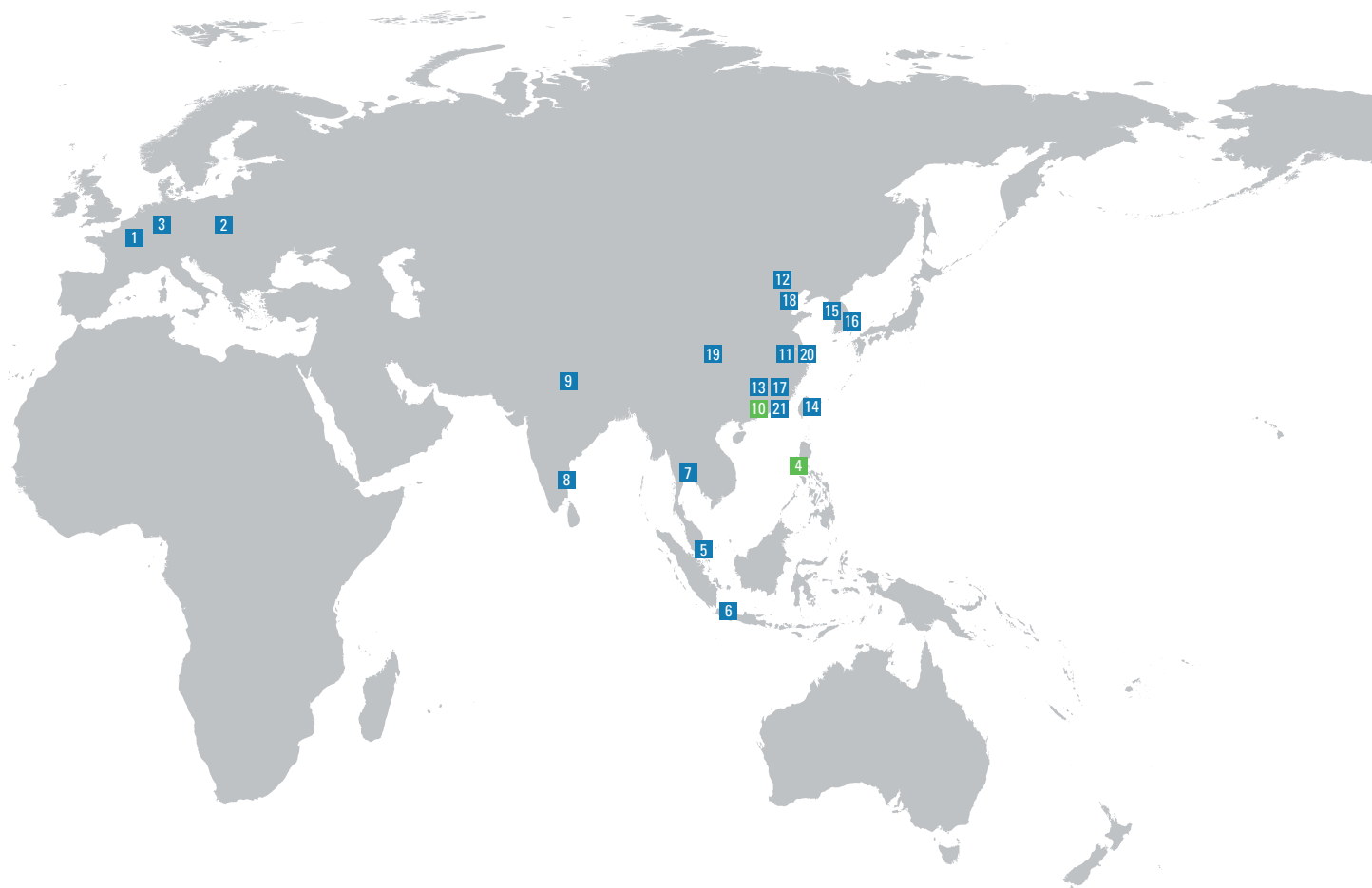
1945 Head Office and Tokyo Works relocated



2000 SANYO DENKI PHILIPPINES, INC. established



2013 Head Office relocated to its current location



Europe

1 SANYO DENKI EUROPE S.A. **TC**

2 Poland Branch

3 SANYO DENKI GERMANY GmbH **TC**

Southeast Asia

4 SANYO DENKI PHILIPPINES, INC.

5 SANYO DENKI SINGAPORE PTE. LTD. **TC**

6 Indonesia Representative Office

7 SANYO DENKI (THAILAND) CO., LTD. **TC**

8 SANYO DENKI INDIA PRIVATE LIMITED

9 Gurgaon Office

East Asia

10 SANYO DENKI (Zhongshan) CO., LTD.

11 SANYO DENKI SHANGHAI CO., LTD. **TC**

12 Beijing Branch

13 SANYO DENKI (H.K.) CO., LIMITED

14 SANYO DENKI TAIWAN CO., LTD. **TC**

15 SANYO DENKI KOREA CO., LTD. **TC**

16 Busan Branch

17 SANYO DENKI (Shenzhen) CO., LTD. **TC**

18 Tianjin Branch

19 Chengdu Branch

20 SANYO DENKI ENGINEERING (Shanghai) CO., LTD.

21 SANYO DENKI ENGINEERING (Shenzhen) CO., LTD.

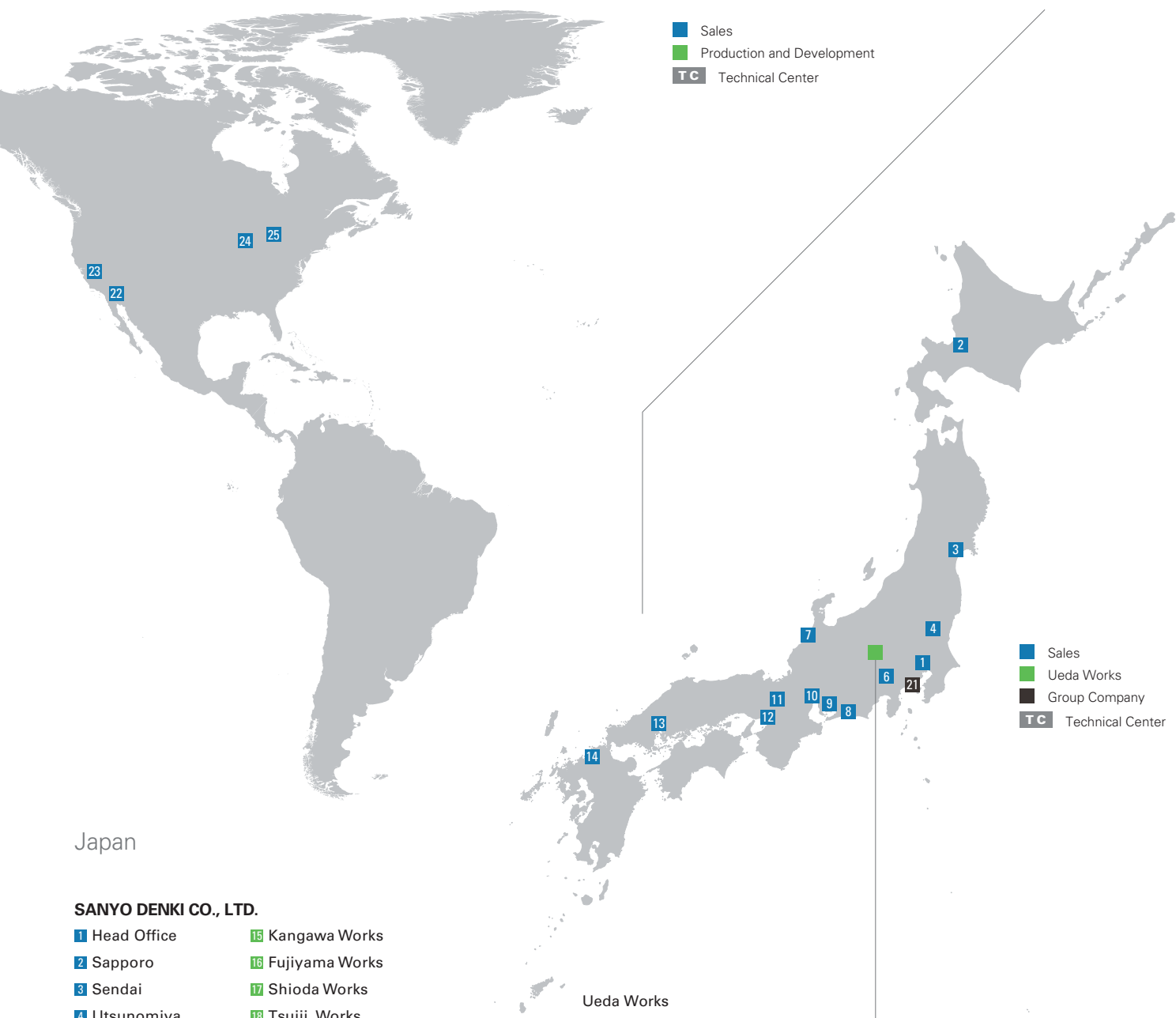
North America

22 SANYO DENKI AMERICA, INC. **TC**

23 Silicon Valley Office

24 Chicago Office

25 Detroit Office (Repair Center) **TC**



Japan

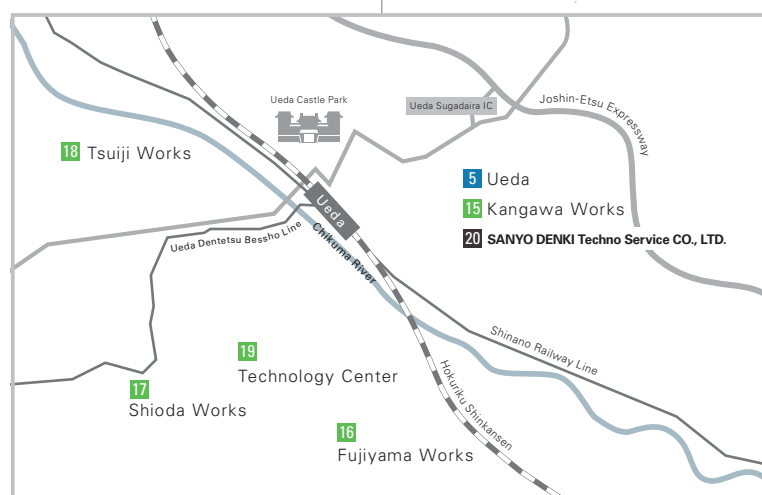
SANYO DENKI CO., LTD.

- | | |
|--------------------|----------------------|
| 1 Head Office | 15 Kangawa Works |
| 2 Sapporo | 16 Fujiyama Works |
| 3 Sendai | 17 Shioda Works |
| 4 Utsunomiya | 18 Tsuiji Works |
| 5 Ueda | 19 Technology Center |
| 6 Kofu | |
| 7 Kanazawa | |
| 8 Hamamatsu | |
| 9 Kariya | |
| 10 Nagoya | |
| 11 Kyoto | |
| 12 Osaka TC | |
| 13 Hiroshima | |
| 14 Fukuoka | |

20 SANYO DENKI Techno Service CO., LTD.

21 SANYO KOGYO CO., LTD.

Ueda Works



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Ueda Works

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Group Company

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Corporate Data

Founded	August 1927
Incorporated	December 1936
Capital	9.9 billion yen (As of March 31, 2017)
Consolidated Sales Revenue	74.7 billion yen (As of March period, 2017)
CEO/President & COO	Shigeo Yamamoto

Number of Employees	SANYO DENKI Group 3,309 (As of September 30, 2017)
Corporate Headquarters	3-33-1 Minami-Otsuka, Toshima-ku, Tokyo, 170-8451, Japan TEL: +81 3 5927 1020 FAX: +81 3 5952 1600
Stock Listing	The First Section of the Tokyo Stock Exchange
Homepage	http://www.sanyodenki.com

SANYO DENKI CO., LTD.