

Quality is more than a word



Company Profile 2020

ESPEC's core competence is “Environmental Creation Technology”

Creating more certain “Seikankyo” for tomorrow

A radiant bright blue, our earth is comprised of a number of different environments. There are tropical rainforests alive with colorful flora, snowy mountains in frigid extremes, and scorching-hot deserts. There are also worlds into which man has never stepped, including the stratosphere and the deep seas. ESPEC's “Environmental Creation Technology” allows for the reproduction of all the globe's different environments, and it effectively confirms the safety and reliability of the various products, technologies, and services that support our lives. Planes can fly safely. Smartphones can be used on snowy mountains at subfreezing temperatures. Automobiles work safely, be it the middle of summer or winter. ESPEC's technology provides support for all these things that we take for granted in our lives.

Regardless of any living things or products, there is a life just as in the case of human beings. And, the higher the reliability and safety these things achieve, the longer this life can be lived to its fullest. Human beings have a life. The earth has a life. And, the devices, components, and the like that enrich our lives also have a life. The environment that allows for each and every one of these to sparkle with vitality and fully perform to their abilities is what we refer to as “Seikankyo.”

ESPEC's role in society is by no means to stand out, but it is very important and necessary for society. We will continue to serve as “a small, but brilliantly shining and corporate presence” for a society in which people can live with peace of mind.





ESPEC, growing in tandem with the environment






The singing of small birds, the chirping of insects, the splash of a fish leaping out of the water, the laughter of children... If you listen carefully, you may hear the sounds of living things. The murmur of rivers, the sound of waves, water running amidst large trees, wind blowing through a pine forest... If you listen carefully, you can hear the sounds of the earth.

If we move our perspective from “human” to “earth,” we begin to see things we have never noticed. We are the same as every other living thing on this earth, and thus are part of the global environment. Ever since its inception, ESPEC has placed its focus on the environment. Our stance with regard to the environment is not merely to avoid placing a burden upon it, but a continuing effort to see how much good we can do for it.

Not only are we focused on greater energy efficiency in products, but we also actively make contributions in the field of green technology. The ESPEC group works as a whole toward the preservation of biodiversity via activities such as urban afforestation and spontaneous regeneration.

Identity passed on through the ages





It was 1947 and not long after the war when ESPEC embarked on its business journey, and this heralded the beginning of various challenges. The company has steadily grown step by step through repeated successes and failures as well as its share of joy, sadness, and hardships. Based on the technology acquired via work with scientific instruments, ESPEC took a bold step into “environmental testing devices” roughly 10 years after its inception. It was an age in Japan when no one had heard of an “environmental test.” ESPEC created its first environmental testing device based on the motto of “doing what is slightly different sooner than others.” The stance we had then is now considered our identity of “Progressive” and serves as the foundation for ESPEC activities.

In addition, ever since we began at ESPEC, we have engaged in corporate activities based on the philosophy that “the company

is a public institution.” In consideration of how much impact companies have on society, there are various things that ESPEC promises society. One is to “comply with the law.” This is only a matter of course. ESPEC, however, not only abides by the given laws, but applies itself to a higher social standard when there are international or inter-regional differences in the laws. We also promise to respect the culture regardless of the country or the region and protect human rights. We also try to preserve the beautiful earth environment and serve on an even higher level. We pledge to always strive toward keeping and realizing these promises.

It is THE ESPEC MIND that represents these promises and what we at ESPEC place importance on. ESPEC engages in educational activities so that all of our employees may share in this philosophy (THE ESPEC MIND).

ESPEC

Leader in the field of
environmental testing

85.0°C
85%

Comprehensive solutions for environmental testing to support the development of cutting edge technology

Electronic devices and industrial products that we rely on every day are impacted by our environment in a number of ways, including temperature, humidity, pressure, vibration, light, and electromagnetic waves. Environmental testing analyzes and evaluates the impact that these environmental factors have on products in order to ascertain their durability and reliability.

Within this field, which is essential for the development of cutting edge technology, ESPEC is the pioneer in Japan and has served as the industry leader for over half a century. We boast a wide variety of different products, including the “Platinous J Series,” which is the world’s standard in the field of temperature and humidity chambers. Others include “Walk-In Type Temperature (& Humidity) Chambers” that allow environmental testing of large-scale products, “Thermal Shock Chambers” used in the reliability and durability testing of electronic components, and “Bench-Top Type Temperature (& Humidity) Chambers” that can achieve full-fledged testing despite their compact bench-top size.

ESPEC starts with the proposal of a test plan to the customers. We also select and offer the testing devices suitable for the test, and conduct commissioned environmental testing and analyze/evaluate the test results. Furthermore, in addition to the provision of product maintenance, we provide product rentals, used products and the like, all in an effort to provide comprehensive solutions for environmental testing from the customer’s perspective via a wide variety of services.



Thermal Shock Chamber TSA Series



Bench-Top Type Temperature (& Humidity) Chamber



Walk-In Type Temperature (& Humidity) Chamber E Series



Temperature (& Humidity) Chamber Platinous J Series



**Establish a bountiful future via
environmental creation technology**



Providing devices to ensure reliability and safety also in the fields of 5G, IoT, self-driving vehicles, and electric vehicles.

Interest in creating clean and safe energy to realize a sustainable society has been growing worldwide. There are also efforts being made toward achievement of a low carbon society via saving energy and the like. Our devices, with our “Environmental Creation Technology” as the core, are used in this field of energy and the environment. In the automobile market, responding to the worldwide enhancement of environmental regulations, the development of eco vehicles, including electric vehicles and fuel cell vehicles, has been progressing. Along with this, there is a growing demand for testing to ensure the reliability and safety of the secondary batteries and fuel cells used in eco vehicles. We are working to expand our product lineup while providing products that meet these testing needs of our customers. In addition, with the spread of self-driving technology toward the reduction of traffic accidents as well as advancements in our digital infrastructure such as 5G and IoT, the reliability of electronic devices with incredible functionality that utilize these new technologies must be established. ESPEC will quickly respond to such social changes and precisely meet the new testing needs of our customers.



Drive-In Chamber for Vehicle Testing



Large Capacity Thermal Shock Chamber



High Current Charge/Discharge Test System for Battery Cell

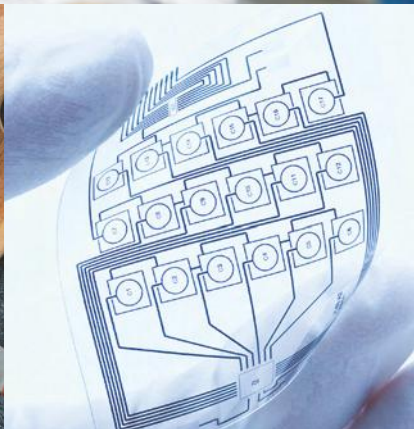


Environmental Stress Chamber AR series
Rapid-Rate Temperature Cycle Type / Standard Type





What ESPEC can do



Low-oxygen training room

Engaging in operations characteristic of ESPEC also in new fields such as pharmaceuticals, foods, and materials.

ESPEC also provides devices using our environmental creation technologies for the quality control of pharmaceuticals, food, and cosmetics – all items that deeply affect our lives. For these types of products, we conduct tests to examine whether there are any changes in the quality between when they are manufactured and used. These tests are predetermined by Ministry of Health, Labour and Welfare guidelines, and ESPEC provides stability test chamber and walk-in stability test chamber that comply with these guidelines. In the field of materials, we offer Thermal Air Test System that are used when developing new materials related to Vehicles and 5G. We have an aging cabinet and vacuum low temperature heating cooker called VidePro in our lineup of cooking products. We also have a “low-oxygen training room” where the room is kept at a low oxygen level and people can do altitude training at a low altitude. The room has been used by some of the world’s top athletes for training and to research effective training methods. We are promoting this business that serves people even in such life-science fields.



Stability Test Chamber used for quality control of pharmaceuticals and foods



Thermal Air Test System used when developing new materials



A plant factory using deep-sea water by joint research with DHC Corporation and Kyoto University (near Haneda airport)



Aging Cabinet used to produce sausages and aged meat



VidePro, a vacuum low-temperature heating cooker used to quickly macerate food ingredients



More reliable service via
reliability testing technology

Measuring room for safety testing at the Battery Safety Testing Center

Kobe Test Center



Toyota Test Center



Kariya Test Center



Utsunomiya Test Center



ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.



ESPEC ENGINEERING (THAILAND) CO., LTD.



Reliable testing quality that is internationally recognized
Total support for customers’ testing needs in compliance with various standards

ESPEC provides comprehensive solutions for environmental testing. Using our wealth of knowledge developed via environmental testing and unrivaled performance, we are able to provide a comprehensive service that includes everything from the design/implementation of reliability testing to evaluation/analysis and improvement proposals. ESPEC has opened four test centers in Japan (Utsunomiya, Toyota, Kariya, and Kobe), all of which have the latest equipment that allow us to conduct commissioned reliability testing as well as commissioned calibrations of sensors, measurement devices, and chambers over a wide-ranging area. The centers have been certified as being in compliance with “ISO/IEC17025,” an international standard regarding test center capacity. They are also ILAC*1 MRA*2 compliant, which allows for high quality testing/calibrations. In addition, under the Japan Calibration Service System (JCSS), we are accredited as the first JCSS Accredited Calibration Laboratory in Japan and provide calibration services for thermometers and humidity measurement devices on behalf of the national government. Also, in the Chinese and ASEAN markets where the demand for testing is increasing, we have opened test centers in Shanghai, Suzhou, and Chonburi Province (Thailand) and provide commissioned testing. ESPEC offers services that meet the needs of our customers via 30 years of commissioned testing and vast experience both in Japan and abroad.



***1 ILAC (International Laboratory Accreditation Conference)**
An international organization that certifies test centers and laboratories

***2 MRA (mutual recognition arrangement)**
A system where one country accepts certification results based on the standards in its counterpart country, even if the standard certification procedures differ between these two countries

■ Battery Safety Testing Center

This is the world’s first test center corresponding to UN/ECE-R100, Series 2, Part II (UN standard) on the safety of secondary batteries used in eco vehicles. Our partnership with TÜV SÜD Japan Ltd.*3 enables us to offer services from the implementation of various safety testing to applications for certification in one location.



***3 TÜV SÜD Japan Ltd.**
Japanese subsidiary of TÜV SÜD Group, a third-party certification organization headquartered in Germany



Battery Safety Testing Center (Within Utsunomiya Technocomplex)

Utsunomiya Technocomplex

We built the Battery Safety Testing Center, Utsunomiya Test Center, and a showroom in the Utsunomiya Technocomplex, which provides various services as our sales base for East Japan. We installed solar panels on the premises for a joint research project with NEDO (New Energy and Industrial Technology Development Organization). The power generated by the solar panels is used by the facility, which helps our efforts to conserve energy.

Location	23-1, Kiyohara Kogyo-danchi, Utsunomiya, Tochigi
Year operations started	1991
Total area	30,320m ²
Utsunomiya Test Center area	2,752m ²
Battery Safety Testing Center area	1,085m ²



Utsunomiya Technocomplex



Showroom



A person in a light-colored lab coat is seen from the back, sitting at a desk and looking at a computer monitor. The background is a blurred office or laboratory setting with bookshelves. Overlaid on the right side of the image are two identical line graphs with y-axes ranging from 0 to 99.9. In the bottom right corner, there is a laptop screen displaying a colorful thermal or vibration map of a square component.

Research & Development

On the theme of new “potential”

New reliability testing is necessary for innovative technology to attain reliability. And, to evaluate innovative products, new testing and inspection methods are used. ESPEC has proposed testing methods, devices, and systems that meet these new needs via solutions comprised of “innovative technical development” and “creative new products.” For example, establishing reliability is one of the most important technological issues in the fields of IoT (Internet of Things), self-driving vehicles, and electric vehicles. ESPEC is

participating in joint research activities with universities and other companies on new testing technologies such as HALT and working on the development of testing methods. We are also involved in standardization activities for environmental testing in the fields of automobiles and electronics as well as promoting international standardization for testing in conjunction with government agencies and industrial associations. As seen with such industrial-government-academia joint research, our approach to R&D varies according to

the specific theme. One of the characteristics of our R&D is understanding what our customers do, sharing in their problems, and providing proposals to resolve those problems or issues. With environmental problems continuing to worsen, we are working to develop environmentally friendly products, such as the first environmental testing equipment with a low global warming potential (GWP) in Japan, in addition to our efforts to make our products more energy-efficient.



● Website for engineers, “Test Navi”

We have developed a website specialized in information on reliability technology for engineers called “Test Navi.” It gives customers helpful information in practice settings, such as environmental testing knowledge, basic information on reliability technology, and the latest testing trends, at the appropriate timing. The number of members registered with “Test Navi” currently exceeds 19,570.

Core

Core technologies

- High precision, temperature/humidity control
- High precision, low pressure/temperature control
- High precision, high speed control of heat transfer
- Testing and analysis

The weather on our earth is influenced by environmental factors such as temperature, humidity, and pressure. We at ESPEC specialize in controlling these factors as well as measuring and controlling substances under environmental stress conditions. In order to offer more precise and faster control of these environmental factors and measurement of substances, we have continued research activities reaching even into heat transfer control, which serves as the core technology in these efforts. In addition, in order for our products that fully exploit these control and measurement technologies to anticipate customers' needs, we also provide testing and analysis technologies that predict material properties, molecular composition, and their changes. All of these are our core technologies.

Hybrid

Hybrid technologies

- Signal transmission under high/low temperature and pressure
- Conveyance under high/low temperature
- Mixed gas precision control
- Environmental test chamber networking

We have integrated the core and other types of technologies to produce our hybrid technologies. One example is the “Signal transmission under high/low temperature and pressure,” a hybrid of environmental and measurement technologies that focuses on measurement. Another is our “Conveyance under high/low temperature” that hybridizes environmental and mechanical technologies to allow the transporting of large panels of glass exceeding 2 meters in height/width in environments of at least 250°C. Some other hybrid technologies we offer are “Mixed gas precision control” and “Environmental test chamber networking.”

At ESPEC, our goal is to further evolve the technologies we have already developed so they may some day attain status as one of our core technologies.

Kobe R&D Center

This center engages in technology development and new product development as the base of our R&D activities. It also encompasses the Kobe Test Center, which has been certified as an ISO/IEC 17025-compliant test center and a plant that manufactures Temperature (& Humidity) Chambers. The ESPEC Forest (a forest in which native plants are planted and grown) and the biotope on the premises are

used as places where students, company employees, and locals can learn about environmental preservation.

Location	5-2-5 Kanokodaiminamimachi, Kita-ku, Kobe, Hyogo	
Year operations started	2001	
Total area	31,911m ²	
Building area	Technology Development Building	4,395m ²
	Building for testing	2,419m ²
	Building for design and production	4,858m ²
Biotope	5,300m ²	



Technology Development Building

This facility promotes open innovation via the merging of internal and external technologies such as industrial-government-academia collaborations to develop environmental factor technologies, environmentally conscious products, and the like. On our roof, we also have a green space where we are cultivating plants native to the northern area of Rokko to promote the conservation of biodiversity.

Production

Putting the ESPEC ideal into products

ESPEC produces more than 1,000 standard devices. We also provide many custom-made devices to meet the special needs of our customers. The Fukuchiyama Plant houses a production line with the capability to output a wide variety of small orders as it efficiently creates the necessary link between orders received and production. The plant is currently home to seven different facilities, including a large dedicated facility equipped with a clean room. As evident by our newest facilities, QMC (QUALITY MANAGEMENT CIRCLE) activities, 3S (Seiri; organized, Seiton; neat, Seiketsu; clean) activities, and other endeavors,

ESPEC spares no effort in improving its production facilities to create goods of the utmost quality. We also established the Fukuchiyama Training Center on site as the training base for our company's



In-company Proficiency Measurement System

employees and those from other companies. Based on the concept, "The foundation for product creation is in the people," the Fukuchiyama Plant conducts a unique program of education and training. It has introduced an in-company proficiency measurement system in order to train and develop skilled employees able to efficiently produce high quality products, with many employees undergoing the test each year. These efforts, as well as the development of courses to train a group of leaders in the production field, indicate the focus being placed on the development and training of our people.



● Global Production System

With five overseas production facilities in China (Shanghai and Guangdong), the U.S. (Michigan and Colorado), and Korea, we are striving to expand our production capabilities so that we can globally offer the highest quality products. As the mother plant in the globally expanding ESPEC group, the Fukuchiyama Plant plays the key role for more sophisticated and diversified production.

Fukuchiyama Plant

The Fukuchiyama Plant began operations in 1974. The Osadano Industrial Park in Kyoto Prefecture established advanced self-imposed restrictions with regard to environmental impact, which was rare at the time. We selected it as our production center as we strived to create sophisticated and diversified products. Today, the Fukuchiyama Plant includes some unique facilities such as the ESPEC History Hall P³ (P CUBIC) that exhibits a rebuilt workshop from the time our company was founded and displays our products to date, and the Fukuchiyama Training Center, which has solar panels installed, in

addition to seven different manufacturing buildings and an office building. Many people from around Japan and abroad visit the plant.

Location	1-7 Osadano-cho, Fukuchiyama, Kyoto
Year operations started	1974
Total area	54,822m ²
Plant area	18,039m ²



ESPEC History Hall P³ (P CUBIC)



SHANGHAI ESPEC



ESPEC NORTH AMERICA



ESPEC KOREA



ESPEC TEST EQUIPMENT (GUANGDONG)



Quality Assurance

Quality assurance from the customer's perspective

The rapid advancement of technology and complexity of machines and devices have made quality assurance (QA) more important and difficult. We pay the utmost attention to our product quality since the quality of ESPEC's products directly leads to the quality of our customers' products.

In 1993, we obtained ISO 9001 certification, the international standard of quality management systems, ahead of many other domestic competitors. Since then, we have been addressing the continuous improvement of our QA program. The transition process to the ISO revision in 2015 has been completed.

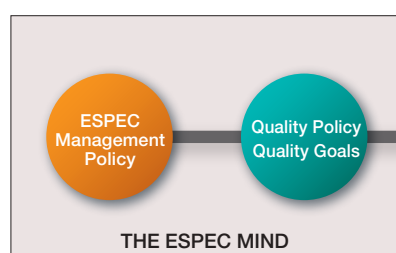
The ESPEC group's quality policy is to "safely, comfortably, and assuredly fulfill the mission as well as to provide more reliable products and services."

We strive to provide the products that make all our customers satisfied and think, "It was a good decision to buy/use ESPEC's product." We also have established a unique QA system, called EQA (ESPEC QUALITY ASSURANCE), and are promoting it in Japan and among our group companies overseas. These efforts are intended to provide customers with true satisfaction in the entire process from product R&D to sales, service, and disposal, in cooperation with ESPEC group companies

and our agencies. Other QA efforts include a company-wide small circle-called QMC (QUALITY MANAGEMENT CIRCLE), which was created to work on quality improvements. Also, the IATF 16949 (the international standard for automotive quality management systems) process management system we introduced in FY2015 to confirm and improve the effectiveness of each process. As such, we have diligently persisted in our efforts to ensure quality. Our international-level QA system responds to our customers' trust and meets their needs.

ESPEC Quality Assurance System

EQA : ESPEC QUALITY ASSURANCE



※ EQA Activity : QA activities in which every division/department in ESPEC works closely together to achieve our policies and goals.





Environmental Management

Initiative in environment management

“A corporation is a social existence aimed at supporting the realization of people’s happiness.” This ideal, which is at the root of all ESPEC activities, is clearly reflected in our stance toward environmental problems. We took an interest in the issue of environmental conservation from early on and have since continued to engage in pro-environment activities. We developed our mid-term plan on the environment and promote environmental management based on this plan. With regard to global warming prevention, into which we are putting a great deal of effort, we have been developing energy-efficient products and offering products that use chlorofluorocarbons with low global warming potential (GWP) refrigerant. In 2017, we launched the first environmental testing equipment that uses refrigerant with a low GWP in Japan. In addition, at our Kariya Test Center, where we conduct commissioned testing, we utilize the “Tradable Green Certificates System”※ to switch all the power used (about 1.7 million kWh per year) to green power via biomass power generation. By using 100% green power for our commissioned testing

services, we also help our customers reduce their impact on the environment. Striving toward the preservation of biodiversity, we have improved and enhanced the “ESPEC Foundation for Earth Environmental Research and Technologies,” which is a public trust supporting environmental conservation research, as well as engaged in various activities such as a forest preservation initiative called the “Creation of forests in Kewara,” where we work with the residents’ association of the Oe-cho Kewara area in Fukuchiya-ma city, Kyoto, under our forest utilization and protection arrangement. We also provide services, in cooperation with ESPEC MIC Corp., to study and diagnose corporate forests and provide advice from a professional perspective. We identify the attractive aspects and issues unique to the region so the corporations can use the information for future biodiversity conservation activities.

※ A system in which the company (Japan Natural Energy Company Limited) that issues the certificate obtains certification from a third-party certification body (Japan Quality Assurance Organization) for the environmental value of the electricity generated using natural energy and trades it in the form of “Tradable Green Certificates.”



Kariya Test Center
Using 100% green power to conduct commissioned testing



22nd Ceremony of the ESPEC Foundation for Earth Environmental Research and Technologies (public trust)



Study and diagnosis of corporate forests



Sales and Service

Services that increase the customers' value



Our customer support desk is manned by staff who have a wealth of product knowledge who promptly and appropriately respond to customer inquiries.

Our customers demand various products and services, and ESPEC's motto for sales activity is to "Meet the customers' real needs properly to increase the customers' value." We boast a nationwide sales network with 25 different centers throughout the country, meeting the various needs of our customers from test planning to the provision of devices and rental products as well as commissioned testing proposals, product preventive maintenance, and disposal. We firmly believe that "The real relationship with the customer begins once the product has been delivered." In addition to domestic and overseas agencies, ESPEC's Field Engineering

Department provides not only after sales service but regular preventive maintenance so that our customers can use our products without worry wherever they are located. We are trying to offer services that increase our customers' value, such as providing proposals for improvement so that they can continue using our products in the best condition possible. Our customer support desk is manned by staff with a wealth of product knowledge who promptly and appropriately respond to customer inquiries regarding product performance and technological aspects as well as materials requests. We are equipped with a system that allows us

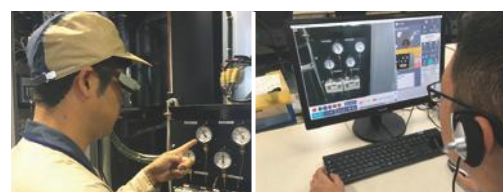


to provide a prompt response to telephone inquiries from customers, which means we can support them properly. ESPEC strives to create an ongoing relationship with our customers, providing services that can be purchased and used anywhere in the world with peace of mind.

Domestic sales centers	15 centers
Domestic service centers	15 centers
Domestic agencies	46 companies
Overseas sales network	46 countries 42 companies

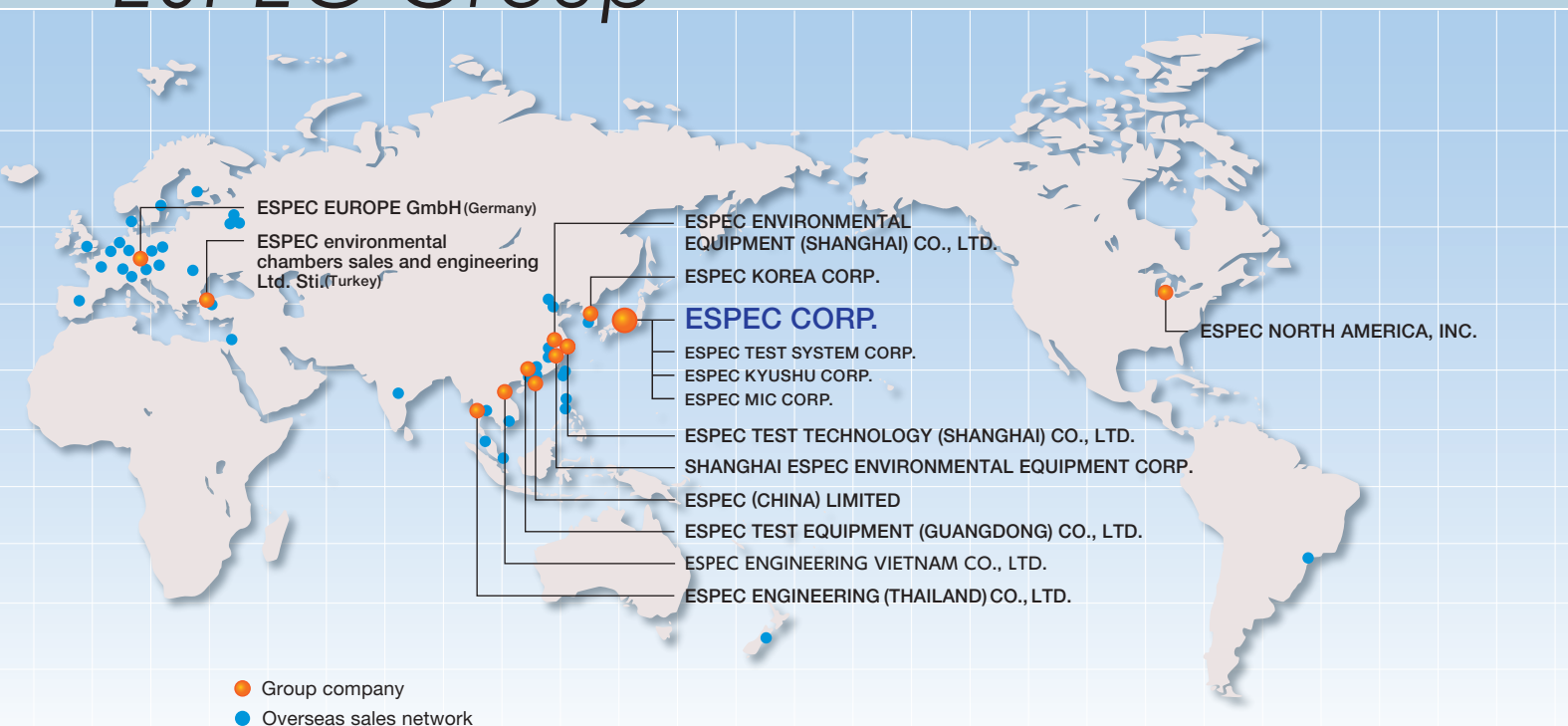
● IT-based online services

We provide various IT-based services that allow our customers to feel peace of mind when they use our products. Any malfunctions of our test devices are automatically detected even before we are contacted by the customer, and we promptly let them know how to fix the malfunctions or remotely support their repair work using smart glasses to confirm the device status. We also have a centralized management system that allows us to remotely monitor and operate multiple testing devices using mobile devices, etc.



Remote support of repair work done by local service persons while using smart glasses to confirm the device status

ESPEC Group



Comprehensive capabilities throughout the world that support ESPEC quality

ESPEC offers comprehensive environmental testing services, and our name is known not only in Japan, but around the world as well. We have group companies all over the globe and overseas sales networks that provide us with support. This network is the largest among the environmental testing equipment providers and serves as one of the driving forces

behind the ESPEC brand. With the network, we will continue to provide customers throughout the world with high quality products and services as well as put forth our best efforts to gain the strong trust of our customers as a global company in the international community.

ESPEC NORTH AMERICA, INC.

ESPEC NORTH AMERICA was established as our first overseas subsidiary in 1983. It has all development, production, sales, and service functions, and offers a wide array of product lineups to meet our customers' needs. It conducts the sales and service of its own products, including Global-N Temperature Cycling Chambers, Walk-In Temperature (& Humidity) Chambers, and Criterion Benchtop Temperature (& Humidity) Chambers, as well as those manufactured in Japan. It has obtained the second largest share of the U.S. market. By also providing QUALMARK-brand HALT/HASS testing chambers, ESPEC NORTH AMERICA can meet not only the testing needs of customers in the U.S., but also those in other countries throughout the world. At our Michigan Plant, a 12,081m² building has been constructed on a large site with an area of 53,540m², and our Colorado Plant is engaged in the production of HALT/HASS testing chambers.



Company name	ESPEC NORTH AMERICA, INC.
Headquarters	4141 Central Parkway, Hudsonville, MI 49426, U.S.A.
Established	1983
Business	Development, manufacturing, sales, and servicing of environmental testing equipment, HALT/HASS testing chambers
Total area	53,540m ² (Michigan Plant)
Building area	12,081m ² (Michigan Plant)

SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.

SHANGHAI ESPEC is the first production base that was established in China in 1985. It already has a history of over 30 years and has garnered the great trust of Chinese customers. It is engaged in the development and production of a number of products including Walk-In Type Temperature (& Humidity) Chambers, Temperature (& Humidity) Chambers, Convection Ovens, Temperature Chambers, and Desk-Top Type High-Temp Chambers. It constructed three 3,000m² plants, which are equipped with the latest production capacity, covering some 30,000m² of land area. It has focused on the improvement of production areas, for example, introducing QC circle activities and a proficiency measurement system in order to efficiently provide higher quality products. It continues to take on new challenges in the Chinese market, where further market expansion is expected.



Company name	SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.
Headquarters	1518 Hao, Hua xin Zhen Hua zhi Road, Qing pu Qu, Shanghai, 201708, P.R. China
Established	1985
Business	Design and manufacturing of environmental testing equipment
Total area	Approximately 30,000m ²
Plant area	Approximately 3,000m ² × 3 buildings

ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.

In March 2014, ESPEC Test Equipment (Guangdong) Co., Ltd., which is fully funded by ESPEC, began operations. Built in an industrial park in the Nansha District of Guangzhou (Guangdong), an area flourishing in the electronics and automobile industries, it features 17,854m² of factory floor area spread out over a 28,579m² site. ESPEC Test Equipment (Guangdong) Co., Ltd. is developing and producing Temperature (& Humidity) Chambers, Compact Ultra Low Temperature Chambers, and Temperature Chambers using the production technology developed in Japan. The products manufactured here are sold not only in China, but throughout ASEAN countries. ESPEC Test Equipment (Guangdong) is striving to grow as a new base that supports ESPEC globally.



Company name	ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.
Headquarters	101, 16Hao Meide 2 road, Zhujiang gongye yuan, Zhujiangjie, Nan sha Qu, Guangzhou City, Guangdong, 511462, P.R. China
Established	2013
Business	Manufacturing and sales of environmental testing equipment
Total area	28,579m ²
Plant area	17,854m ²

ESPEC KOREA CORP.

ESPEC KOREA was established in 2001. In 2006, the company constructed a plant equipped with the latest facilities in the Hyeon-gok Industrial Park in Pyeongtaek City, Gyeonggi Province, a region that serves as the country's center for the electronics and automobile industries. The plant is involved in the manufacture of environmental testing equipment. The products manufactured by ESPEC KOREA are not even marketed in Korea, but are exported to Japan and ASEAN countries as well as Europe and the U.S. Efforts are always being made to upgrade and expand production capabilities to ensure the provision of high-quality products as the production base for ESPEC, which is making waves all over the world.



Company name	ESPEC KOREA CORP.
Headquarters	(Hyeon-gok Industrial Park)67, Hyeongokсандan-Ro, 93 beon-Gil, Chongbuk-Eup, Pyeongtaek-City, Gyeonggi-do, 17812, Korea
Established	2001
Business	Manufacturing of environmental testing equipment
Total area	4,880m ²
Plant area	1,822m ²

ESPEC Group

ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.

ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) sells the products of all of the companies in the ESPEC group. It also provides after-sales services, allowing customers to purchase ESPEC products with peace of mind. It has offices in Beijing, Tianjin, Shanghai, Suzhou, Guangzhou, Shenzhen, Xian, and Chengdu. It can even respond to inquiries in Japanese.

Company name	ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.
Headquarters	Unit A, 5F, Building B, No.207, Songhong Road, Changning District, Shanghai, 200335, P.R. China
Established	1997
Business	Sales and after sales service of environmental testing equipment
Sales office	Beijing, Tianjin, Shanghai, Suzhou, Guangzhou, Shenzhen, Xian, Chengdu



ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.

Boasting the latest in environmental testing equipment, ESPEC TEST TECHNOLOGY conducts a wide range of commissioned testing. As a private third-party testing facility, it provides highly reliable testing results. With the establishment of its center in Suzhou, it steadily meets the demands of its customers in the ever-growing Chinese market.

Company name	ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.
Headquarters	Room 101, Building 2, No.1295, ChuanQiao Road, Pudong New Area, Shanghai, 201206, P.R. China
Established	2004
Business	Commissioned testing services for environmental testing
Test center	Shanghai, Suzhou



ESPEC ENGINEERING (THAILAND) CO., LTD.

ESPEC ENGINEERING (THAILAND) was established within the Amata Nakorn Industrial Estate, where many Japanese companies are located. It is working hard to improve its services, such as technical support and commissioned testing for Japanese companies that have expanded their businesses to ASEAN countries. In addition, it established a subsidiary, ESPEC ENGINEERING VIETNAM CO., LTD. in Hanoi, Vietnam to improve technical support for customers.

Company name	ESPEC ENGINEERING (THAILAND) CO., LTD.
Headquarters	700/860, Amata Nakorn Industrial Estate (Phase 8), Moo5, Tambol Nongkakha, Amphur Panthong, Chonburi, 20160, Thailand
Established	2015
Business	Product sales, maintenance and inspection, after sales service Commissioned testing services



ESPEC EUROPE GmbH

ESPEC EUROPE GmbH, which is located in Dusseldorf, Germany, handles sales and services of ESPEC-group company products in the European market. In addition, it established a subsidiary in Turkey to handle sales and services and it also responds to customer requests by utilizing its sales network in European countries.

Company name	ESPEC EUROPE GmbH
Headquarters	Wahlerstrasse 32, 40472 Düsseldorf, Germany
Established	2006
Business	Sales and service of environmental testing equipment



ESPEC TEST SYSTEM CORP.

ESPEC TEST SYSTEM develops, manufactures, and markets primarily environmental testing systems and testing measurement systems. Its unique technological capabilities that combine environmental control technology with its three core technologies, which are mechanics, electronics, and computers, allow it to rapidly meet customer needs.

Company name	ESPEC TEST SYSTEM CORP.
Headquarters	1-6-6 Mikageishi-machi, Higashinada-ku, Kobe, Hyogo
Established	1966
Business	Development, manufacturing, and sales of environmental testing equipment



ESPEC MIC CORP.

ESPEC MIC is engaged in nature restoration/revival projects, such as reforestation and river recovery. It is also involved in the operation of a plant factory that can systematically grow safe vegetables without any use of agricultural chemicals and the promotion of wall-surface greening.

Company name	ESPEC MIC CORP.
Headquarters	1-233-1 Omido, Oguchi-cho, Niwa-gun, Aichi
Established	1988
Business	Plant factory business, restoration of natural environment, development/manufacturing/sales of environmental testing devices
Office	Tokyo and Osaka



ESPEC KYUSHU CORP.

ESPEC KYUSHU markets not only ESPEC products but a number of different devices including physicochemical devices, analytical devices, and semiconductor-related devices. It handles a wide variety of products that meet the needs of companies, universities, and government institutions to provide services that lead to customer satisfaction.

Company name	ESPEC KYUSHU CORP.
Headquarters	2-6-15 Katanoshinmachi, Kokurakita-ku, Kitakyushu, Fukuoka
Established	2006
Business	Sales of physicochemical devices, analytical devices, and semiconductor-related devices
Office	Branch (4-4-38, Hagiwara, Oita)



History



A



B



C



D



E



F



G

- 1947 ● Goro Tabai, the company's first president, Toshio Tabai, the managing director, and Eiichi Koyama, the company's second president, founded the scientific equipment manufacturing company at the site of the present head office.
- 1954 ● Reorganized as Tabai Manufacturing Co., Ltd.
- 1960 ● Development of Japan's first environmental test chambers begins. A
- 1966 ● Establishment of a nationwide network of sales agents.
- 1967 ● Delivery of Japan's first hyperbaric treatment chamber (PHC-50) to Osaka University Hospital. B
- 1968 ● Reception of the national recognition award from the Medium and Small Business Research Institute.
- 1969 ● Sales of the Platinous Series of Temperature and Humidity Chambers begins.
- 1972 ● The Platinous Series carries the industry's first 2-year / 5000-hour warranty.
- 1974 ● Completion of the first phase of the Fukuchiyama Plant. C
- 1975 ● Establishment of Tabai Engineering Service Co., Ltd.
- 1977 ● Completion of the second phase of the Fukuchiyama Plant, and establishment of three affiliated manufacturing companies.
- 1978 ● Establishment of the Quality Assurance Department to develop a quality assurance system.
- 1979 ● Completion of the third phase of the Fukuchiyama Plant.
 - Opening of the industry's first large showroom in the head office.
- 1980 ● Assumption of post of Representative Director / President by Senior Managing Director Eiichi Koyama with the passing of first president Goro Tabai.
- 1981 ● Commencement of the first corporate identity plan.
- 1983 ● Renaming of company to TABAI ESPEC CORP.
 - Completion of new Head Office. D
 - Listing of company shares on the second section of the Osaka Securities Exchange.
 - Establishment of ESPEC CORP. (Currently ESPEC NORTH AMERICA, INC.)
- 1985 ● Joining of the Technocosmos Pavilion exhibition at Tsukuba Expo '85. E
 - Listing of company shares on the second section of the Tokyo Stock Exchange.
 - Signing of joint-venture agreement with Shanghai Experimental Instrument Factory.
- 1986 ● Listing of company shares on the first sections of both the Tokyo Stock Exchange and the Osaka Securities Exchange.
 - Start of operations of SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.
- 1987 ● Certification for the Environmental Test Technology Center as Japan's first independent IECQ-certified test laboratory.
 - Start of commissioned environmental testing services.
 - Holding of TABAI ESPEC's first independent exhibition of environmental testing equipment in Beijing, China.
- 1989 ● Holding of the second independent exhibition in Beijing.
 - Holding of the company's first domestic independent exhibition, ESPEC NEW'S '89 in Tokyo. F
- 1990 ● Cosponsorship of the International Garden and Greenery Expo.
 - Completion of the sixth factory at the Fukuchiyama Plant.
- 1991 ● Completion of the first phase of the Utsunomiya Technocomplex.
- 1992 ● Assumption of post of Chairman by Eiichi Koyama; Succession of Kiyoshi Shimazaki as Representative Director / President.
- 1993 ● Registration certification of company's quality control system according to ISO 9001 quality standard (JIS Z 9901).
- 1995 ● Signing of joint venture agreement with Guangzhou Environmental Simulation Engineering Corp. of CEPREI.
- 1996 ● Start of operations of GUANGZHOU ESPEC ENVIRONMENTAL EQUIPMENT CO., LTD.
 - Opening of representative office in Malaysia.
 - Holding of the '96 ESPEC Group Environmental Test Equipment Exhibition in Beijing. G
 - Registration of the Fukuchiyama Plant as complying with the ISO 14001 standard for environment management systems.
- 1997 ● Registration of the Utsunomiya Technocomplex as complying with the ISO 14001 standard for environment management systems.
 - Incorporation of Malaysia Representative Office into ESPEC (MALAYSIA) SDN. BHD.
 - Establishment of TABAI ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD. [Currently ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.]
 - Holding of 50th anniversary commemorative event.

- 2000 ● Establishment of SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP. (New)
- Completion of the seventh factory at the Fukuchiyama Plant.
- 2001 ● Completion of the first phase of the Kobe Technocomplex (currently known as Kobe R&D Center). **H**
- Establishment of ESPEC KOREA CORP.
- Start of operations with Mic Co., Ltd. based on agribusiness. (Currently ESPEC MIC CORP.)
- Certification by the Environmental Test Technology Center (Kobe Test Center) as an independent IECQ-authorized test laboratory per ISO / IEC 17025.
- 2002 ● Assumption of post of Representative Director by Kiyoshi Shimazaki, and Representative Director / President by Susumu Nojii.
- Change of company name to ESPEC CORP. **I**
- Renaming of Tabai Engineering Service Co., Ltd. to ESPEC ENGINEERING CORP.
- Establishment of ESPEC ENVIRONMENTAL TEST TECHNOLOGY CENTER.
- 2003 ● Achievement of ISO 14001 certification by entire group.
- Opening of ESPEC History Hall P³ (P Cubic) at the Fukuchiyama Plant.
- Establishment of Europe Office in Germany.
- Completion of ESPEC NORTH AMERICA's new plant. **J**
- 2004 ● Reception of the "Nihon Kogyo Shimbun Co., Ltd. Prize" in the 13th Grand Prize for the Global Environment Award.
- Establishment of ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.
- 2005 ● Reception of the "Excellent Sustainable Management Award" of the Third Japan Sustainable Management Awards.
- ESPEC's 40th Agency Conference held in Shanghai. Domestic and overseas agencies participate for the first time.
- 2006 ● Apollomec Co., Ltd. changes company name to ESPEC TECHNO CORP.
- Establishment of ESPEC KYUSHU CORP.
- Establishment of ESPEC EUROPE GmbH.
- 2007 ● Renaming of ESPEC ENVIRONMENTAL TEST TECHNOLOGY CENTER CORP. to ESPEC TEST CENTER CORP.
- Completion of the Fukuchiyama Training Center. **K**
- Assumption of post of Representative Director / President by Nobuyoshi Shin.
- 2010 ● ESPEC CORP. acquired ESPEC ENGINEERING CORP. and ESPEC TEST CENTER CORP.
- Receipt of certificates of appreciation as a member of the "Hayabusa" project support team from the State Minister in Charge of Space Development and Minister of Education, Culture, Sports, Science and Technology.
- 2011 ● Assumption of post of Representative Director by Nobuyoshi Shin, and Representative Director / President by Masaaki Ishida.
- 2013 ● The Platinous J Series received the 33rd Japan Machinery Federation Chairman's Award for Excellence in Energy-Conserving Machinery.
- Renaming of ESPEC TECHNO CORP. to ESPEC TEST SYSTEM CORP.
- Establishment of Energy Device Environmental Test Center. (in Utsunomiya Test Center)
- 2014 ● Start of operations of ESPEC Test Equipment (Guangdong) Co., Ltd. **L**
- Being selected as one of the "Global Niche Top Companies Selection 100" by the Ministry of Economy, Trade and Industry
- 2015 ● Establishment of ESPEC ENGINEERING (THAILAND) CO., LTD. in Thailand.
- Acquisition of 100% ownership of SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP to own it as a wholly-owned subsidiary
- Establishment of Battery Safety Certification Center in Utsunomiya Test Center
- Acquisition of ownership of QUALMARK CORPORATION (U.S.) to own it as a consolidated subsidiary
- 2016 ● Received "Kurumin," and "Eruboshi" Mark Certification from the Ministry of Health, Labour and Welfare and "Leading Company in Women's Advancement in Osaka City" Certification from Osaka city
- 2017 ● "47・17・25" event held in celebration of ESPEC's 70th anniversary.
- 2018 ● ESPEC NORTH AMERICA, INC. acquired QUALMARK CORPORATION
- Establishment of ESPEC ENGINEERING VIETNAM CO., LTD. in Vietnam.
- 2019 ● Received the "Danjo Ikiiki Plus" certification from Osaka Prefecture as a company that promotes the furthering of a friendly working environment for both males and females.
- Obtained ISO 27001, the international standard for an information security management system
- 2020 ● Completed construction of Technology Development Building, a technology development building within the Kobe R&D Center. **M**



Outline

Corporate data (as of March 31, 2020)

Established	July 25, 1947
Incorporated	January 13, 1954
Capital	¥ 6,895,000,000
Stock Markets	Tokyo Stock Exchange first section
Shares Issued	23,781,394 shares
Employees	1,512(consolidated)

Board Members (as of June 23, 2020)



President
Masaaki Ishida

Managing Director	Taneo Shimada
Director, Senior Executive Officer	Kazuhiro Suehisa
Director, Senior Executive Officer	Satoshi Arata
Director, Exective Officer	Toshiyuki Hamano
Director, Exective Officer	Kenji Fuchita
Outside Director	Hiroyuki Nagano
Outside Director	Toshiya Kosugi
Standing Corporate Auditor	Kunikazu Ishii
Outside Corporate Auditor	Tetsuo Yamamoto
Outside Corporate Auditor	Masahiko Tsutsumi
Outside Corporate Auditor	Takahiro Tanaka
Senior Executive Officer	Seiichi Murakami
Senior Executive Officer	Keiji Oshima
Executive Officer	Junko Nishitani
Executive Officer	Katsuhiko Watabe

Offices

Head Office

3-5-6, Tenjinbashi, Kita-ku,
Osaka 530-8550, Japan
Tel: 06-6358-4741 Fax: 06-6358-5500

Metropolitan Area Sales Office

SHINBASHI SQUARE BLD. 6F, 5-14-10,
Shinbashi, Minato-ku, Tokyo 105-0004, Japan
Tel: 03-6402-3591 Fax: 03-6402-3594

Kanagawa Sales Office

1-29-12, Shimokodanaka, Nakahara-ku,
Kawasaki, Kanagawa 211-0041, Japan
Tel: 044-740-8450 Fax: 044-797-0073

Osaka Sales Office

15-8, Taimahigashi-machi, Neyagawa,
Osaka 572-0072, Japan
Tel: 072-834-1191 Fax: 072-834-7755

Utsunomiya Technocomplex (UTC)

23-1, Kiyohara Kogyo-danchi, Utsunomiya,
Tochigi 321-3231, Japan
Tel: 028-667-8730 Fax: 028-667-8733

Sendai Sales Office

1-2-22, Yaotome chuo, Izumi-ku, Sendai,
Miyagi 981-3135, Japan
Tel: 022-218-1891 Fax: 022-218-1894

Takasaki Sales Office

3-16-6, Midori-cho, Takasaki,
Gunma 370-0073, Japan
Tel: 027-370-3541 Fax: 027-370-3542

Shizuoka Sales Office

7-26, Izumi-cho, Suruga-ku,
Shizuoka 422-8066, Japan
Tel: 054-654-6570 Fax: 054-654-6571

Nagoya Sales Office

2-250, Takayashiro, Meito-ku, Nagoya,
Aichi 465-0095, Japan
Tel: 052-777-2551 Fax: 052-777-2575

Shiga Sales Office

3-4-6, Tehara, Ritto, Shiga 520-3047, Japan
Tel: 077-551-2275 Fax: 077-551-2276

Fukuoka Sales Office

4-10-12, Hakataekiminami, Hakata-ku,
Fukuoka 812-0016, Japan
Tel: 092-471-0932 Fax: 092-474-3500

Tsukuba Service Branch

1-11-10, Matsushiro, Tsukuba,
Ibaraki 305-0035, Japan
Tel: 029-854-7805 Fax: 029-854-7785

Nishitokyo Service Branch

4-2-10, Fujimidal, Kunitachi, Tokyo 186-0003, Japan
Tel: 042-501-2571 Fax: 042-501-2573

Atsugi Service Branch

36-5, Higashinaruse, Isehara,
Kanagawa 259-1117, Japan
Tel: 0463-94-9433 Fax: 0463-94-6542

Kanazawa Service Branch

3-115, Kuratsuki, Kanazawa, Ishikawa 920-8203, Japan
Tel: 076-268-1891 Fax: 076-268-1893

Hiroshima Service Branch

1-1-42, Yasuhigashi, Asaminami-ku,
Hiroshima 731-0153, Japan
Tel: 082-832-8065 Fax: 082-832-8068

Kobe R&D Center

5-2-5, Kanokodaiminamimachi, Kita-ku, Kobe
Hyogo 651-1514, Japan
Tel: 078-951-0960 Fax: 078-951-0967

Fukuchiyama Plant (Kyoto)

1-7, Osadano-cho, Fukuchiyama, Kyoto 620-0853, Japan
Tel: 0773-27-3131 Fax: 0773-27-1132

Battery Safety Testing Center / Utsunomiya Test Center

23-1, Kiyohara Kogyo-danchi, Utsunomiya
Tochigi 321-3231, Japan
Tel: 028-667-8735 Fax: 028-667-8733

Toyota Test Center

3-44-1, Seishin-cho, Toyota, Aichi 471-0844, Japan
Tel: 0565-25-3364 Fax: 0565-25-3365

Kariya Test Center

1-3, Shinmei-cho, Kariya, Aichi 448-0034, Japan
Tel: 0566-62-8380 Fax: 0566-62-8385

Kobe Test Center

5-2-5, Kanokodaiminamimachi, Kita-ku, Kobe
Hyogo 651-1514, Japan
Tel: 078-951-0961 Fax: 078-951-0964

ESPEC Group (Japan)

ESPEC TEST SYSTEM CORP.

1-6-6, Mikageishi-machi, Higashinada-ku, Kobe,
Hyogo 658-0045, Japan
Tel: 078-856-5181 Fax: 078-856-5186

ESPEC KYUSHU CORP.

2-6-15, Katanoshinmachi, Kokurakita-ku, Kitakyushu,
Fukuoka 802-0062, Japan
Tel: 093-941-1731 Fax: 093-921-2822

ESPEC MIC CORP.

1-233-1, Omido, Oguchi-cho, Niwa-gun,
Aichi 480-0138, Japan
Tel: 0587-95-6369 Fax: 0587-95-4833

ESPEC KURIYA LAB CORP.

Nippo Higashihonmachi Building 303,
3-3-3, Otedori, Chuo-ku, Osaka 540-0021, Japan
Tel: 06-6766-4821 Fax: 06-6766-4822

ESPEC Group (Overseas)

ESPEC NORTH AMERICA, INC.

4141 Central Parkway, Hudsonville, MI 49426, U.S.A.
Tel: (1) 616-896-6100 Fax: (1) 616-896-6150

SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.

1518 Hao, Hua xin Zhen Hua zhi Road, Qing pu Qu,
Shanghai, 201708, P.R. China
Tel: (86) 21-69791178 Fax: (86) 21-69791213

ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.

Unit A, 5F, Building B, No.207, Songhong Road,
Changning District, Shanghai, 200335, P.R. China
Tel: (86) 21-51036677 Fax: (86) 21-63372237

ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.

Room 101, Building 2, No.1295, ChuanQiao Road,
Pudong New Area, Shanghai, 201206, P.R. China
Tel: (86) 21-68798008 Fax: (86) 21-68798088

ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.

101, 16Hao Meide 2 road, Zhujiang gongye yuan,
Zhujiangjie, Nan sha Qu, Guangzhou City,
Guangdong, 511462, P.R. China
Tel: (86) 20-84528102 Fax: (86) 20-84528107

ESPEC (CHINA) LIMITED

ESPEC KOREA CORP.
(Hyeongok Industrial Park) 67, Hyeongoksandan-Ro,
93 Beon-Gil, Chongbuk-Eup, Pyeongtaek-City,
Gyeonggi-do, 17812, Korea
Tel: (82) 31-686-8523-5 Fax: (82) 31-686-8526

ESPEC ENGINEERING (THAILAND) CO., LTD.

700/860, Amata City Chonburi Industrial Estate (Phase8)
Moo.5, Tambol Nongkakh, Amphur Panthong,
Chonburi 20160, Thailand
Tel: (66) 3-810-9353 Fax: (66) 3-810-9356

ESPEC ENGINEERING VIETNAM CO., LTD.

Room 8, 9th Floor, VIT Tower, 519 Kim Ma Street,
Ngoc Khanh ward, Ba Dinh District, Hanoi, Vietnam
Tel: (84) 24-22208811 Fax: (84) 24-22208822

ESPEC EUROPE GmbH

Wahlerstrasse 32, 40472 Düsseldorf, Germany
Tel: (49) 211-361850-0

Organizational Chart (as of April 1, 2020)



ESPEC CORP.

3-5-6, Tenjinbashi, Kita-ku, Osaka 530-8550, Japan

Tel: 81-6-6358-4741 Fax: 81-6-6358-5500

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