エミック株式会社

Company Profile




Partner for Your Quality.

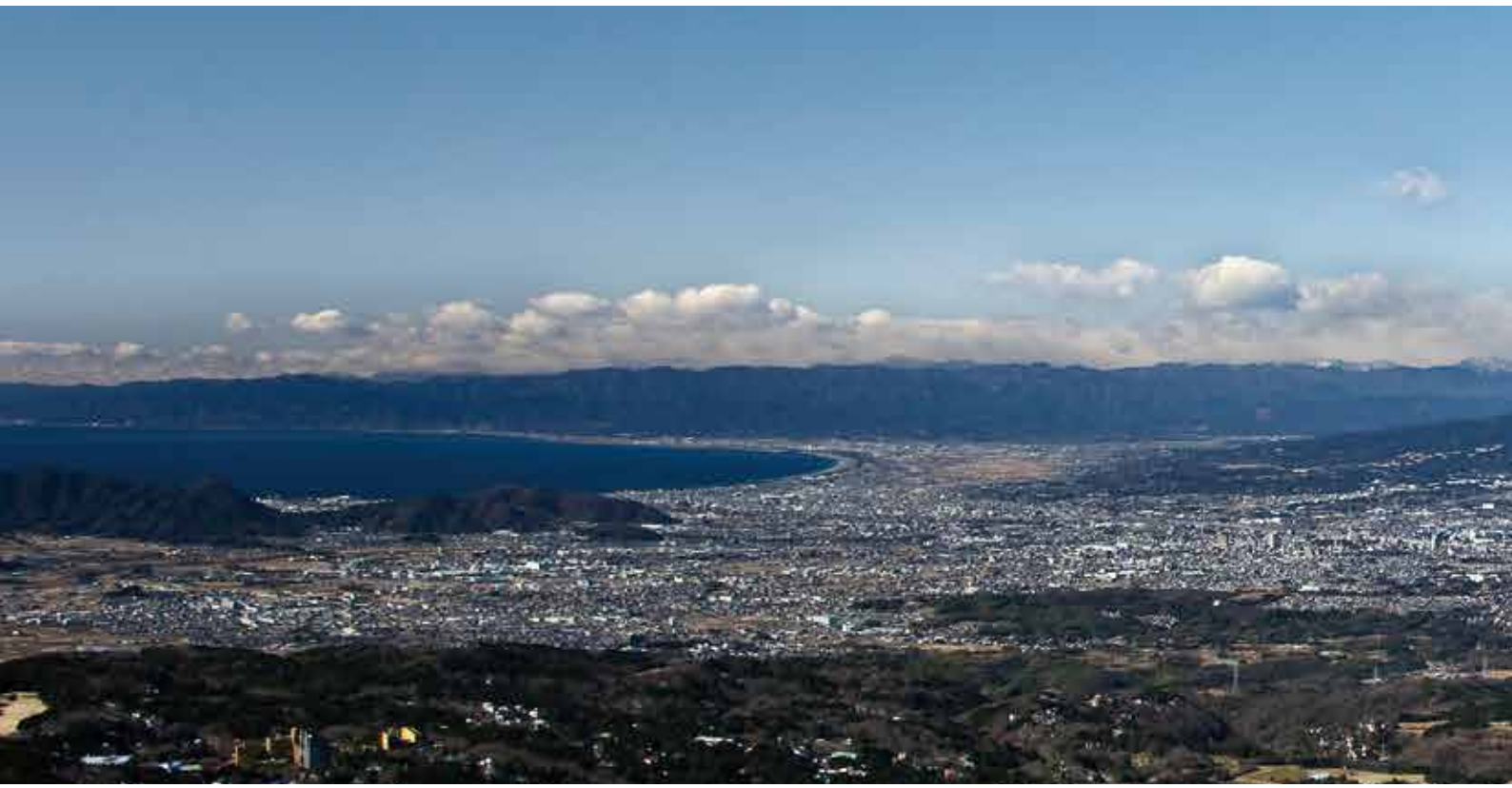
EMIC CORPORATION

EMIC CORPORATION is the comprehensive manufacturer of
combined environmental test system for quality test, reliability test and durability test.

EMIC CORP.

Our challenge is to contribute the society as a partner to back up the quality of industrial products which support people, environments and future.

Our EMIC' s test equipment and test solution-service set out to be the partner needed for improving the quality, reliability and safety of industrial products and serving people and environments by engaging in the development of new industry and state-of-the-art including technology in environmental, electric and electronic, automobile and aeronautics.



We will contribute actively to people, environments and technologies by supporting the improvement in quality and reliability of products.

The breakthrough of scientific technology evolved the computer, networking equipment and cellular phone to realize the highly-sophisticated information society. With the development in precision equipment, automotive and aeronautical industry the steel-collar worker and a new composite material such as fiber-reinforced plastic, metal composite are created. The automotive industry in particular achieves the practical use of the HV and EV car. In addition it has already started the challenge to new energy age such as hydrogen-fueled engine (fuel battery).

The construction of the rapid-transit railroad, meanwhile, is on the menu all over the world. It is extremely important to maintain and improve the reliability or quality of highly-sophisticated products of evolutionary-advanced technology. The purpose of verification of quality is to check if the product or service has been made just as someone intended.

Although we offer the product such as vibration and combined environmental test system, contracted testing and test solution-service to improve the quality of customer's products, we will assist you with the state-of-the-art and abundant experience.

Work toward "Partner for Your Quality"…

EMIC CORPORATION

Seiji Ohno
President and CEO

Mishima-city in Shizuoka is endowed with invaluable nature adjacent to Mount Fuji, the representative mountain of Japan and Kakitagawa-river intake area, the brand name spring water. This area is the symbol of our corporate activity for production and Green products, and also our EMIC's base for providing development, design, manufacturing, service and quality assurance.

EMIC CORPORATION Corporate Information

Corporate Name	EMIC CORPORATION
Foundation	September 25, 1963
Establishment	July 1, 1971
Representative	Seiji Ohno, President and CEO
Capital	90.8 million Yen
Employees	180 (as of July, 2020)
Business	●Manufacture and sell Vibration Test System, Vibration Measuring Instrument, and Environmental Reliability Test System. ●Contracted Test Service
Main Products	●Electrodynamic Vibration Test System ●Combined Environmental Reliability Test System ●Rapid Temperature Chamber ●Inspection System for Air-bag Applications ●Vibration Control System ●Charge Amplifier ●Non-Contacting Displacement Meter ●Vibrometer Calibration System ●Vibration Measuring Instrument ●Eddy Current Applied Sensor, etc.
Main Banks	●Gotanda Branch / Mizuho Corporate Bank, Ltd. ●Gotanda Branch / MUFG Bank, Ltd. ●Numazu Branch / The Shoko Chukin Bank
Affiliation	●Japan Electric Measuring Instruments Manufacturers Association ●Testing Machinery Association of Japan ●Tokyo Scientific Instrument Association
Member of Committee	IEC•ISO Japanese National Committee
ISO Certifications	ISO-9001 and ISO-14001 Quality and Environmental Management Systems Certification

Location

■ Head Office ■ Tokyo Office	A-PLACE Gotanda 3F, 2-27-3 Nishi-Gotanda, Shinagawa-ku, Tokyo 141-0031, Japan	Phone : +81-3-3494-1221 Fax : +81-3-3494-1288
■ Nagoya Office	Tomei Grand Bldg. 6 Fl., 2-30 Issha, Meito-ku, Nagoya-shi, Aichi 465-0093, Japan	Phone : +81-52-753-6308 Fax : +81-52-753-6328
■ Osaka Office	Hanahara 5 Bldg., 6 Fl., 8-17 Nishinakajima 7-chome, Yodogawa-ku, Osaka-shi, Osaka 532-001, Japan	Phone : +81-6-6886-0451 Fax : +81-6-6886-0454
■ Mishima Factory ■ Mishima Test Lab Center	11 Heiseidai Mishima-shi, Shizuoka, 411-0042	Phone : +81-55-988-8411 Fax : +81-55-988-8400
■ Saitama Office & Factory ■ Saitama Test Lab Center [First Saitama Test Lab Center Second Saitama Test Lab Center]	620-1 Asahigaoka, Hidaka-shi, Saitama 350-1203, Japan 622-1 Asahigaoka, Hidaka-shi, Saitama 350-1203, Japan	Phone : +81-42-984-4151
■ Tokai Office ■ Yokkaichi Test Lab Center	2-1-26 Noda, Yokkaichi-shi, Mie 510-0815, Japan	Phone : +81-59-340-5870
■ Kobe Office ■ Kobe Test Lab Center	5-2-13 Mitsugaoka, Nishi-ku, Kobe-shi, Hyogo 651-2228, Japan	Phone : +81-78-915-8588
■ Utsunomiya Test Lab Center	23-1 Kiyohara Kogyo-danchi, Utsunomiya-shi, Tochigi 321-3231, Japan	Phone : +81-42-986-0861
■ Mizunami Test Lab Center	2020 Yamada Cho, Mizunami-shi, Gifu 509-6104, Japan	Phone : +81-572-26-9281
■ Hikone Test Lab Center	746-1 Nodayama Cho, Hikone-shi, Shiga 522-0025, Japan	Phone : +81-572-26-9281
■ Hyogo Test Lab Center	47-13 Niijima, Harima-cho, Kako-gun, Hyogo 675-0155, Japan	Phone : +81-78-915-8588


Head Office


Mishima Factory

Group Company

<China>

■ EMIC(Suzhou) Test Equipments Co., Ltd.	NO.10-7,Oujiang Road,Shuangfeng Town,Taicang City, Suzhou City,Jiangsu Province, 215416, China	Phone : +86-18806221982
■ Shanghai Office (DENKEI TRADING (SHANGHAI) CO.,LTD. OFFICE)	1168 Shijidadao, Pudong Xinqu, Shanghai Shi, 200122, China	Phone : +86-02158208002-335 Fax : +86-02158206774

<Thailand>

■ THAI EMIC CO., LTD. ■ Thai Test Lab Center	15/1 Soi Punnawithi 28, Sukhumvit 101 Road, Bangchak, Prakanong, Bangkok, 10260, Thailand	Phone : +66-2331-2746 ／ +66-2331-2747 Fax : +66-2331-2745

<USA>

■ EMIC North America Corporation	216 Bradenton Ave.Suite L, Dublin, Ohio. 43017, USA	Phone : +1-614-889-8802

History

1963	Shin Nippon Sokki Founded.
	Specialized in Development, Manufacture and Sales of Multi-purpose Vibrometer and Electrodynamic Vibration Test Systems.
1967	Shin Nippon Sokki Co., Ltd. Established. Three million yen in capital.
1976	Established Sales and Service office in Osaka to expand west of Japan.
1977	Production of F-series Vibration Test System and Vibration Control System which had been in development since 1975.
1982	Increased the capital to twenty million yen.
1986	Officially renamed from Shin Nippon Sokki Co., Ltd. to EMIC Corporation.
1989	Doubled the capital to forty million yen.
1991	Doubled the capital to eighty million yen.
	Established Sales Office in Nagoya, Aichi. Relocated the factory in Yokohama, Kanagawa to Mishima, Shizuoka.
1998	Obtained the ISO 9001 certification.
2002	Established the Mishima Contracted Test Center next to the Mishima Factory.
2004	Expanded Mishima Contracted Test Center.
2006	Obtained ISO 14001 certification. Increased capital to ninety million eight hundred thousand yen.
2009	Established the Saitama Contracted Testing Center.
2010	Established the Chubu Contracted Testing Center.
	Relocated Nagoya sales office to Chubu Contracted Testing Center and renamed Chubu Sales Office.
2012	Relocated the head office to Shinagawa, Japan.
2013	Established Thai EMIC Co., Ltd. in Bangkok, Thailand.
	Established a joint venture of Contracted Testing Centers in Suzhou, Jiangsu, China.
2014	Dodson Technical Services, Inc. (USA) is listed as authorized dealer of EMIC Corporation.
2015	Relocated Chubu sales office to Nagoya, Aichi and re-opened Nagoya sales office.
	Established Hikone Contracted Test Center and Kobe Contracted Test Center.
2017	Established EMIC(Suzhou) Test Equipment Co., Ltd. in China.
	Established EMIC North America Corporation in Ohio, USA.
2018	Established Thailand Contracted Testing Center in Bangkok, Thailand.
	Relocated Kobe Contracted Testing Center, renamed as Hyogo Contracted Testing Center.
2019	Established Utsunomiya Contracted Testing Center. (Tochigi)
	Acquired Contracted Testing Centers and part of the Environmental Test System Manufacturing and Sales Department from Nissoku Engineering Co. Ltd.
	Established Yokkaichi Contracted Testing Center (Mie) and New Kobe Contracted Testing Center (Hyogo).
	Chubu Contracted Testing Center will be renamed as the Mizunami Contracted Test Center.

EMIC's Efforts for Environments

The Environment Management System ISO14001 is certified.
We launch the sale of products with the electric power saving system,
ECO Vibe-neo implemented in standard.

We consider it the social responsibility as the business enterprise to improve the environmental performance and keep up the compliance. We take advantage of the PDCA cycle of our certified Environment Management System ISO14001 for our environment reform work in the same manner as the Quality Management System. Reducing the power consumption for the electrodynamic vibration test system that requires an especially large amount of electric power is our duty and object. We develop and offer the test equipment with the "Eco-Vibe neo" system implemented in standard, the system that can drastically reduce the power consumption by preventing the field power from getting too large. Moreover, we will perform a challenge the task of reducing CO_2 which has a bad influence on the global warming.

Sales Network that extends all over the world

Testing Systems

Environmental Reliability Test System

It can contribute to an improvement in the quality, reliability, durability and safety of all industrial products.

Various industrial products leading to infrastructure equipment such as computer, aeronautical equipment, nuclear power generation, including crucial home electric appliances and automobiles for our life, need high quality, reliability and durability.
If the air bag for automobiles cannot activate or if the rocket booster or nuclear power generation fails to operate properly, high cost of development and life are lost to turn catastrophic.
To avoid such a disastrous accident, EMIC offers an environmental reliability test system, service and solution to evaluate and test the industrial products to contribute to an improvement in the quality, reliability and durability of industrial products.

Vibration Test System

Electrodynamic vibration test system for evaluating industrial products against vibrations. It can provide a vibration test to cope with various loads such as sine vibration, random vibration, mechanical shock pulse and replication of real-time time trace. It can reproduce and simulate the mechanical stress (vibration or mechanical shock) in field environments calling for.

Combined Environmental Reliability Test System

The test system can test products against complex loads by applying vibration, thermal and humidity stresses simultaneously. The test condition for cars shall reflect well on the field environment so that they can successfully run in violent cold or blazing hot environments, therefore, this test system is highly necessary for them.

Electrodynamic Shock Test System

The system can test the sensor and ECU for an airbag and also reproduce the shock by assuming an automotive collision and full-scale crash. The system can be incorporated into the production line for total inspection. It can maintain the operating quality of the airbag to make a contribution to lifesaving against a traffic accident.

EHVC Series Rapid Chamber
EVTC Series Highly Accelerated Reliability Test System

The system performs a fatigue test by applying thermal stresses to a specimen repeatedly. Since the temperature transition rate is very rapid, it is possible to evaluate age softening of products in a short period of time. Since a more severe stress than field environment is applied to a product, this test can precipitate its defects and weaknesses to significantly reduce a product failure and recall occurred in the market.

Special Applications Environmental Testing Room

Inclement weather conditions

Reproduces severe weather conditions.

The system is able to replicate the traditional Temperature/Humidity load and special weather room (Artificial Climate Room) such as: UV lighting or reproduction of rain, large test room for Automotive bodies and Architectural machinery movement parts, VOC (Volatile Organic Compound) Measurement rooms and other Special Application Environmental Chambers and rooms.

Walk-In/Drive-In Temp./Hum. Testing Room

Large Walk-In/Drive-In Chambers in which Automotive body and Architectural machinery parts are tested by applying Temp./Hum. These large chambers allow the workers to easily maneuver in and out as well as ensures workability, convenience, and safety.

VOC Measurement Chamber / Measurement Room

Test Chambers and rooms to measure VOC (Volatile Organic Compound) emissions in automotive interior materials and living environments. The air-tight seal and temp./hum. control contribute to reducing damage to health during operation of the automotive.

Weathering Room (Artificial Climate Room)

Reproduce indoor climate, for test standards that requires the temp./hum. can be freely configured with the systems program. Additional by adding infrared lamps the system can simulates solar radiation and sprinklers can simulate rain. By doing so, yearly weather conditions can be reproduced.

Carry Pack

Easily disassembled, moved, and reassembled. The system is very easy to operate including the configuration of the program and timers. This Carry pack system is mainly used for aging.

Measuring

Measuring Instrument

The accurate measurement is indispensable for getting a valid test result.

Any test starts out by measuring required parameters for it. Considering that the environmental test simulates field environments, it becomes possible to perform a test under the equivalent condition to a field environment in a test laboratory by measuring, analyzing and modeling vibration and temperature data on site. The measuring instruments are also used for measuring the vibration response at each part of a product under test.

Vibration Measurement Sensor

The primary consideration is a piezo-electric type accelerometer. Our comprehensive line-up of accelerometers can meet the customer's request for measurements at high temperature or highly sensitive measurements at ultra-low acceleration level, including a general purpose type accelerometer.

Vibration Measuring Instrument

Connecting a piezo-electric accelerometer or accelerometer with integral electronics permits to measure vibrations. Despite small, thin and lightweight instrument the large liquid crystal panel is mounted to improve its visibility and operability. From a single portable unit to 200 channels configuration for measuring vibrations of a large satellite the purpose-configured system is quite easy.

Non-contacting Displacement Meter

The principle of the eddy current is applied to measure the distance without contacting an object. This measuring method is widely used in the industry for detecting abnormal vibrations of rotating shafts or ironwork in a production line. The highly accurate signal conditioning for providing the analog voltage being linearly proportional to displacement can be made easy.

Vibration Control System

Multifunctional controller running on Windows makes it easier for everyone to control vibrations. The controller can assign the input channel to measuring as well as controlling and measure vibration response at each part of a unit under test. The test data can be converted into the CSV file to easily create reports using Excel.

Contracted Test Service

Maximum Exciting Force: 176kN
Large Vibration Testing System

Contracted test service

Outsourcing of Environmental, Quality and Reliability Test

EMIC's Contracted Test Service allows you to outsource your environmental, quality and reliability test to EMIC.
Bringing your test article into our facility makes it possible to perform an environmental test such as quality and durability test with the test equipment installed there. Since the existing test facilities are available, it is possible to perform a test at the time when you desire.
We have a lot of test facilities available such as horizontal slip table, large shaker system to respond flexibly to even your diversified test without depending on requirements for your test and specifications of test equipment.
We provide the solution to environmental tests as well as access to test equipment.

Contracted Test System

We have various vibration test systems and horizontal slip table available including the world's largest vibration test system (Maximum exciting force: 176 kN, 100 kN). The combined environmental test systems, environmental and quality test system that can also apply the temperature and humidity stress to a unit under test simultaneously are available. And the tri-axial vibration testing system (servomotor system) has been newly introduced. The access to test equipment that can meet the various test conditions is provided

Test Specifications

Our contracted test service can provide the test that complies with the IEC, ISO, JIS, MIL and other various standards. The customer is also available for consultation on how to interpret specifications described in the various test standards and how to apply them actually. In consultation with you, we look into your test conditions which, although they are not established based on the test standard, are assumed in the stage of development and engineering or reproducing real waveforms in field environments, then recommend an original test standard.

Solutions to Environmental Test

We try to find out your test specifications are proper irrespective of whether or not they are based on the test standard, design a suitable fixture for your application, provide measurement and analysis of temperature, humidity and vibration and respond to the needs of a long continuous test night and day. We perform from the measurement to the analysis and evaluation.

Response by Technical Staff with Specialized Expertise in Environmental Test

Our staff who serves successively on the ISO/TC108/SC6 (International Organization for Standardization/Vibration and Shock Generating Systems Technical Committees) committee will respond. Since we can cover from the basic technique to the latest standard, you can without anxiety commit even technically-difficult environmental tests to us.

After-sales Service

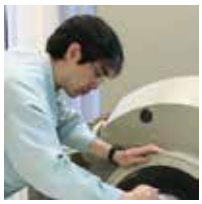
Quality durability and safety

We do not consider absolutely that we provided our product and service when the customer does not continue to use with satisfaction.

We provide comprehensive supporting service to the customers who introduced EMIC's products so as to use them at ease for a long time after expired the warranty period. Our technical service engineers with specialized knowledge, skills and experiences in the environmental test provide customers with proper service quickly. And in addition to the ordinary after-sales service we reflect opinions of our customers to make serious efforts to elevate customer satisfaction level.

Failure Diagnosis and Repair Service

We provide support services for the failure diagnosis, troubleshooting and repair of a product. The customer is also available for consultation on special problems relating to the specification, function, operation or relocation of EMIC's equipment. We always intent on improving service everyday so that the customer can use our products in perfect conditions.



Inspection Service

We provide replacement of consumption parts and inspection of equipment periodically so that the customer can use our products in perfect conditions.

Calibration Service

The calibration shall be completed prior to using test equipment and measuring instruments. EMIC offers calibration services that can be traceable to some absolute means for sensors and instruments of national and international standards organizations.

Modernization Program Service

The modernization program means reconditioning obsolete and aging test equipment and replaces some components such as power amplifier, control system, etc. to bring it up to modern performance levels. We make consideration for reducing the environmental impacts by reuse or electric power saving.

Technical Inquiry Service

We answer the technical questions of environmental test conditions and standards, how to design a fixture or problems encountered during a test. This service makes it very effective to exploit our actual performances, experiences and skills on the environmental test equipment for years.

Seminar Service

We hold a practical seminar as needed ranging from the general environmental testing technology to the particular case including operation of environmental test equipment, training of operating personnel or how to interpret the ISO, JIS test specifications. We disclose our actual performances and technologies openly and publicly by the seminar to reveal how we try to develop the new technology or to challenge the unknown project.

EMIC's environmental test equipment plays an active role in many fields.

Automobile

EMIC's environmental test equipment is used for all the quality and reliability tests of automotive equipment such as car audio systems, navigation support systems, air bags including automotive parts for each part of a car.

Aviation

Although the plane trip is pleasant, the aircraft shall make a flight under harsh environments different from ground environments by repeating takeoff/landing and flight at 10,000 meter altitude. EMIC's large environmental test systems play an important role in the quality and reliability test of such an aircraft part.

Aeronautics

Launching the rocket requires a high acceleration level to loose the rocket outside the earth's atmosphere to make flights in space possible without fail. In performing the quality and reliability test of space appliances EMIC's harsh environmental test system is now absolutely imperative.

Electrical and Electronic

The mobile device is impervious to vibration and shock. And the home electric appliances can resist violent vibrations during its transportation not leading to be damaged or failed to operate properly. Many EMIC's environmental test systems are used for the quality and reliability test of electrical and electronic parts.

Railroad

The Japanese Shinkansen and Linear Motor Car high speed train technology make an advance into world. The railroad industry has been fighting a battle against harsh vibration or temperature loads behind it and overcame the battle. EMIC's environmental test systems make contribution to advancement of the safety and reliability of the Japanese railroad.

Energy

The technology making it possible to put up with a disaster is important to the electric power plant that boasts high energy efficiency. EMIC's environmental test systems play a role in a test of the important quality and reliability such as wearing of rotating shafts including earthquake protection that the energy infrastructure can assure of.

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https://www.emic-net.co.jp/en/

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