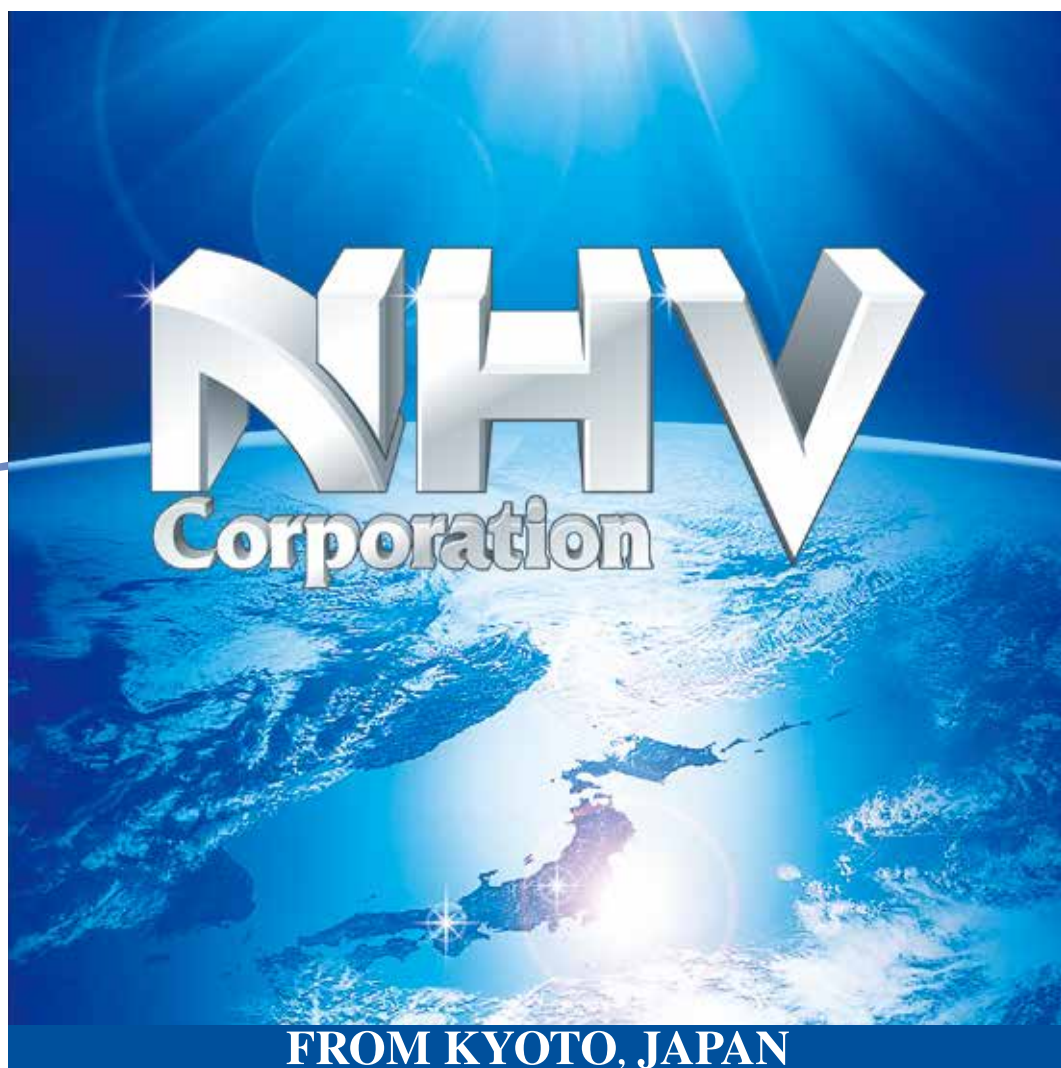


e *An active and high-powered company
pursuing the possibilities of the electron beam*



NHV Corporation

Seeking a Better Future by Creating Valuable Ideas

NHV Corporation serves all people based on our high voltage/vacuum technology, cultivated for many years by our parent company at Nissin Electric Co., Ltd.. We provide manufacturing, sales, and contract work processing of electron beams (EB) equipped with electron beam control technology. Additionally, we offer the manufacture and sales of advanced pulse power supplies and high voltage test equipment using applying pulse power supply technology along with advanced engineering expertise and detailed customer services.

As global society faces increasing needs for Sustainable Development Goals (SDGs), the method of improving the functionality of industrial materials using EB is gaining more and more attention as a clean and environmentally friendly technology, widely used to add value to materials.

NHV Corporation is a world leader in this technology and working hard to contribute to many industrial fields. In particular, as the only manufacturer supporting both the low and high energy ranges of customer requirements with our main electron beam processing system products, we continue to meet the needs of the world.

Our Electron beam Processing Systems (EPS) are currently in use in more than 30 countries. As we become ever more international, we are actively engaging in research to develop a new generation of systems, further extending our industry leadership.

Thank you very much for your ongoing patronage of NHV products and services.



President
Yoshio Shimamura



The Power of C³

NHV Corporation's guiding Principles are governed by the 3Cs (**Customer Satisfaction**, **Creativity**, **Challenge**). We are working as one to generate worthwhile products, and strive to contribute to a more prosperous tomorrow while satisfying and earning the trust of our customers around the world.

Electron beam

The Leading Company in Electron Beams



From
Kyoto, Japan



A half century has passed since 1957 when we started to develop electron beam processing systems (EPS). We are proud to say that we have now delivered many EPS products.

Almost half a century has passed since development was initiated on EPS in the ancient Japanese capital of Kyoto. Now, we can take pride in a large number of EPS installed worldwide. As the leading manufacturer of EPS, we have gained the trust of our customers by building up our original technology and expertise, and running a consistent cycle of development, design, production and maintenance for devices in all fields of application.

In the "environmental age" of the 21st century, the application technology of EPS is drawing more attention as a clean and highly reliable technology that can support the expansion of a variety of industries. We will pursue the possibilities of EPS applications to contribute to the fields of energy and the environment, developing new materials in anticipation of this age's needs, and adding higher value to products.

No.1
Record for EPS
Installations

EPS

Electron beam Processing System



Contribution to Environmental Preservation



EMS Accreditation
RE 009
KYOTO, MAEBASHI AREA



ENVIRONMENTAL
MANAGEMENT
051

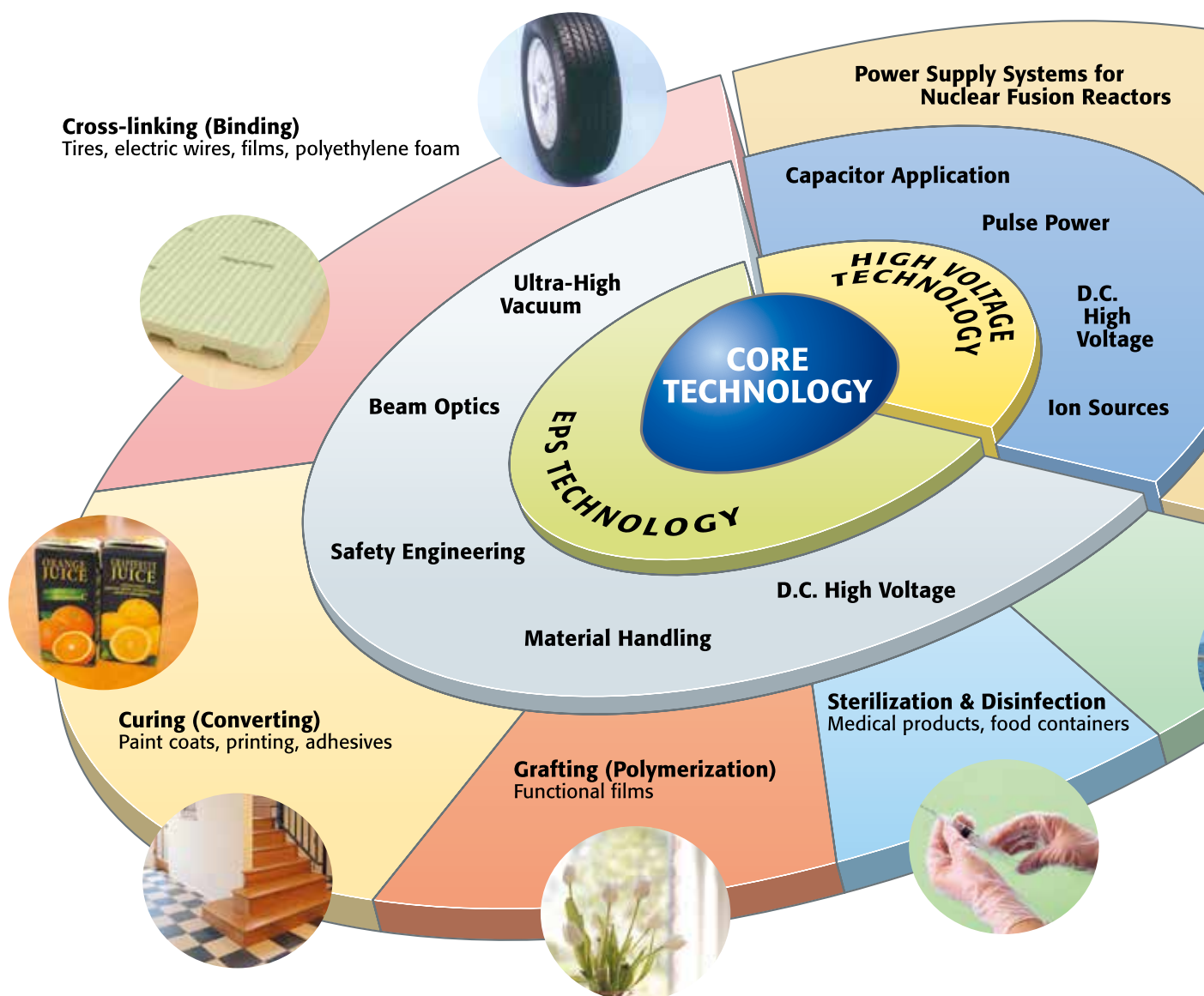
Electron beam (EB) processing is a technology that utilizes the energy of electrons accelerated in a high voltage electric field to ionize and excite the molecules of various materials, resulting in a chemical reaction. In industrial products, for example, processing which was impossible with energy derived from heat or light can now be achieved easily, uniformly and high efficiently using EB energy.

With increasing awareness of such issues as global environmental destruction and exhaustion of energy resources, we are committed to providing technologies and services that contribute to global environmental preservation through clean and environmentally-friendly applications of electron irradiation technologies and high-performance, high-voltage technologies. Such efforts include development and production of adsorbents that remove hazardous materials.

Accelerating towards a rich and precious future

The NHV Corporation group

Utilizing the specialized technology and know-how acquired from the technologies of high voltage power supply systems and electron accelerators, the Energy and Environment business and the Electron beam Processing System business will form the core businesses of NHV Corporation. We will also take up the challenge of establishing a Product Processing business based on software and applications of these technologies.



Electron beam Processing Systems (EPS) Business

In addition to conventional applications such as cross-linking to improve the heat resistance of electric wires and enhancing the quality of polyethylene foam and automotive tires, Electron beam Processing Systems (EPS) are also used to modify wrapping films. There has been an especially remarkable development in the field of low energy systems, leading to widespread use in specialized printing, adhesives and transfer films. EPS have many other uses such as the removal of toxic substances in the air, sterilizing and disinfecting medical products instead of the method using poisonous gas, changing the characteristics of semiconductors and killing insects on imported cut flowers. It has made a wide-ranging contribution to various fields of industry by increasing the performance and adding to the value of processed materials.

ScanningType Electron Beam Processing System

It is used in a wide range of fields including electric wire, chemistry, steel, automobiles and medical equipment. It can be used in special production lines, and for research and development of state-of-the-art technologies and many other purposes.



Area Beam Type Electron Beam Processing System (CURETRON)

It is used for production of functionalized film, adhesive tape and exfoliate paper, and for ink curing and other purposes. It is equipped with a conveyor, inert gas atmosphere system, oxygen measuring instrument and X-ray shielding

EB irradiation Services

We provide all manner of processing needs including R & D tests, sample irradiation and toll irradiation services.

- Our EB Centers are conducting research and development and providing experimental assistance for such purposes as improvement of the properties of various materials, strengthening of coatings and adhesives, and disinfection of packaging materials.
- We provide irradiation services for customers who do not have EPS facilities.
- Our lineup of irradiation systems, including peripheral equipment, caters to various applications. Because such systems are equipped with coaters and laminators, it is possible to conduct continuous processing of films, webs, pipes and tubes



**Haefely Test AG
Test Systems**

**Charge / Discharge
Power Supply Sys**

Klystron Modu

Ion Sources



**Environmental
Preservation**

Removal of toxic
substances
in the air

The technologies and service of professionals

Complete Project Support

1 Project Management

NHVC Corporation (NHVC) provides each customer with a senior project team that is committed to follow the EPS project from conception to completion. NHVC will work directly with the customers, engineers and scientists to ensure that production, quality and start-up goals are met.

2 Design and Production

By reviewing the needs of our customer, we can propose optimized designs to meet their specific requirements. We can prepare technical materials such as layout drawings, detailed equipment drawings and X-ray shielding analyses, and other relevant materials necessary for applying to the public authorities for permission to use.

3 Equipment Manufacture and Testing

NHVC will provide the customer with a manufacturing schedule detailing the specific times for the construction, assembly, and completion of the EPS equipment. In addition, if decided by the customer, a factory test will be done to demonstrate the EPS performance. The customer may also want to witness these tests and is welcome to attend. On the successful completion of the factory test, the EPS is packed for shipment to the customer's site.

4 Supervision On Site

NHVC will send a qualified technician to supervise the installation of the EPS at the customer's site. The installation schedule is again designed to meet the specific production start date as designated by the customer. The supervisor will work with the customer's team to check all the various operations of the system. The final on-site test work will demonstrate the EPS capability over the guaranteed operating range of the system.

5 Training of Customer Personnel

In addition to supervising the installation of the EPS equipment, the NHVC technician will provide training for the customer's operations and maintenance personnel. The on-the-job training technique has proven to be the best and most reliable way to train the personnel that will be directly involved in the maintenance and operation of the EPS. Customers may also choose to send their personnel to the factory for training (This is a customer option).

6 Continuing Support

NHVC provides, as part of its commitment to its customers, a worldwide service and support network. The support network include service technicians and spare parts strategically located to provide our customers with the service necessary and when required to keep our equipment operating throughout the world.

EB Center

How to use this service

For inquiries, please contact us at the EB Processing Service Centers. We will send you a detailed brochure or explain our irradiation methods.



Kyoto EB Processing Service Center

47, Umezu-takase-cho, Ukyo-ku,
Kyoto 615-8686, Japan
TEL. +81-75-864-8815
FAX. +81-75-882-1304



Maebashi EB Processing Service Center

2121, Soja, Soja-machi,
Maebashi, Gunma
371-8515, Japan
TEL. +81-27-280-6341
FAX. +81-27-280-6342



Kyushu EB Processing Service Center

3-2 Fujinoki-machi, Tosu-shi, Saga
841-0048, Japan
TEL. +81-0942-50-5230
FAX. +81-0942-50-5130

All information provided by the client will be kept strictly confidential.

If the client wishes, they can be present during the irradiation process.

For clients in remote locations, a sample piece of material can be sent to us, which we will return after irradiation.

Affiliated Company

NHV Accelerator Technologies Shanghai (NHV-AT)



NHV Corporations - new facility in Shanghai (NHV-AT), is designed to provide our customers in China, with the latest equipment available, in Electron Beam Processing Systems (EPS).

The factory provides our customers with a large manufacturing area for EPS, assembly, testing, a stock of spare parts, and a well- trained support staff.

The knowledgeable sales organization at NHV-AT is ready to assist our customers, in selecting the EPS equipment best suited for their applications.

Established	September 14th, 2011
Stated Capital	3.7 million dollars (100% owned subsidiary of NHV Corporation)
Location	No.1118 Pinghai Road, Situan Town, Fengxian District, Shanghai, 201413, P.R. China
TEL.	+86-21-6921-6030
FAX.	+86-21-6921-6031
HP.	http://www.nhvat.com

NHV AMERICA, INC. (NHVA)



NHV America, has been providing sales and technical support to our customers in the USA for more than 25 years.

The innovative design of the NHV Corporation Electron Processing System (EPS) have given our customers many years of reliable operation.

We continue to look forward at future sales in the Americas, with cutting edge designs, and developments in new applications.

Established	August 8th, 1988
Stated Capital	500 thousand dollars
Location	100, Griffin Brook Drive, Methuen, MA 01844, U.S.A.
TEL.	+1-978-682-4900
FAX.	+1-978-682-3801

Nissin Pulse Electronics Co., Ltd. (NPE)



Nissin Pulse Electronics provides its customers with high voltage equipment, and designs to meet a variety of applications.

We design, and manufacture high voltage power supplies, and high voltage test systems to meet specific customer requirements.

The sales and support team at NPE are highly trained, and are able provide our customer with a number of options on equipment selection.

In addition we are agents for Haefely Test AG products.

Established	November 12, 1968
Stated Capital	12 million yen (100% owned subsidiary of NHV Corporation)
Location	2744-3 Yamazaki, Noda City, Chiba 278-0022, Japan
TEL.	+81-4-7123-0611
FAX.	+81-4-7123-0620
HP.	https://nissin-pulse.jp/eng/



NHV Corporation

<https://nhv.jp/>

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Maebashi Plant 2121, Soja, Soja-machi, Maebashi, Gunma 371-8515, Japan
TEL. +81-27-254-1101 FAX. +81-27-254-1105

Sales & Marketing Dept. (Tokyo) KANDA SQUARE 19th Floor, 2-2-1 Kanda-Nishikicho,
Chiyoda-ku, Tokyo 101-0054, Japan
TEL. +81-3-6739-9715 FAX. +81-3-6739-9719

(Kyoto) 47, Umezu-takase-cho, Ukyo-ku, Kyoto 615-8686, Japan
TEL. +81-75-334-5172 FAX. +81-75-882-1301

**Products are also available through
Nissin Electric Co., Ltd.**

Affiliated Company NHV AMERICA, INC.

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TEL. +1-978-682-4900 FAX. +1-978-682-3801

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