



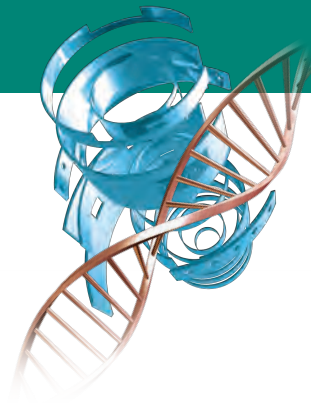
**HITACHI**  
Inspire the Next

Evolution & Succession,  
for the  
**Future**

Hitachi High-Tech, Naka Area

# The Future is High Tech & Integration

With a relentless search  
for new technologies,  
we explore new directions in  
pursuit of higher ideals.



It is not easy to pave a new path in the  
development process of technologies and products.

We have been making bold advances while overcoming barriers  
with novel ideas and positive action.

As the technological base of the Hitachi High-Tech Group,  
we will fulfill our commitment and explore new directions.



Diffraction Grating

## C O N T E N T S

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### Artwork employing diffraction grating, on the first floor of the Design Building

A diffraction grating diffracts light, and thus forms an essential part of spectral devices that split light into ultraviolet, visible, and infrared wavelengths. Hitachi High-Tech produces cutting-edge technology in this field, having developed the world's first varied line-spacing grating by utilizing sophisticated ruling engines. In 1985, we embarked on the development of a diffraction grating for a vacuum ultraviolet spectrometer intended for a NASA satellite, and successfully achieved a high-dispersion diffraction grating having 10,000 grooves per mm. This diffraction grating, which actually became a part of the satellite, helped to provide important observational results. Since then, Hitachi High-Tech's diffraction gratings have been continuously improved, and are now used in a host of analytical instruments.



# V i s i o n

Simplify our customers'  
high-tech processes







General Manager, Naka Manufacturing Div.

## Masaaki Hanawa

Hitachi High-Tech Group's corporate vision is to "Simplify our customers' high-tech processes." Under this vision, we help our customers be fast-moving and successful in the cutting-edge businesses, leading them to the brighter future. Naka Area is soon to celebrate its 60th anniversary. Since its establishment, it has been developing new business fields by fully utilizing its global network in the application of its core technologies, and offering state-of-the-art products and solutions to customers on the frontlines.

Naka Area is the largest design development and manufacturing base of Hitachi High-Tech. In line with the fundamental ambitions of Naka Area, --- "Seeing what cannot be seen" and "Measuring what cannot be measured" --- we are not only creating a wide range of new technologies and products but also actively promoting the generation of new business in the fields of nano-technology solutions and analytical & medical solutions.

Many products of Naka Area have a strong presence overseas. We consider it our responsibility to increase global trust in our products, promote high value-added business, and contribute to society through technological development and product manufacturing. We will continue to focus on accelerating the speed of development, promoting collaboration with customers around the world, and offering the best value based on "Creative Minds" and "Innovative Solutions". We grow and evolve with our customers by providing the best solutions for society and industry. Hitachi High-Tech, Naka Area is committed to advancing into new frontiers, to become the reliable 'Best Solution Partner' for customers throughout the world.

## From visible to measurable — to invaluable

When the desire to see something invisible is fulfilled, this prompts another desire: to measure it accurately. These desires are the basic motivation behind our technological exploration.

To satisfy the desire to see things too small to be seen, we have designed and produced our electron microscopes for the world market. To satisfy the desire to capture light that cannot be perceived by the naked eye, we have developed and improved various types of analyzer.

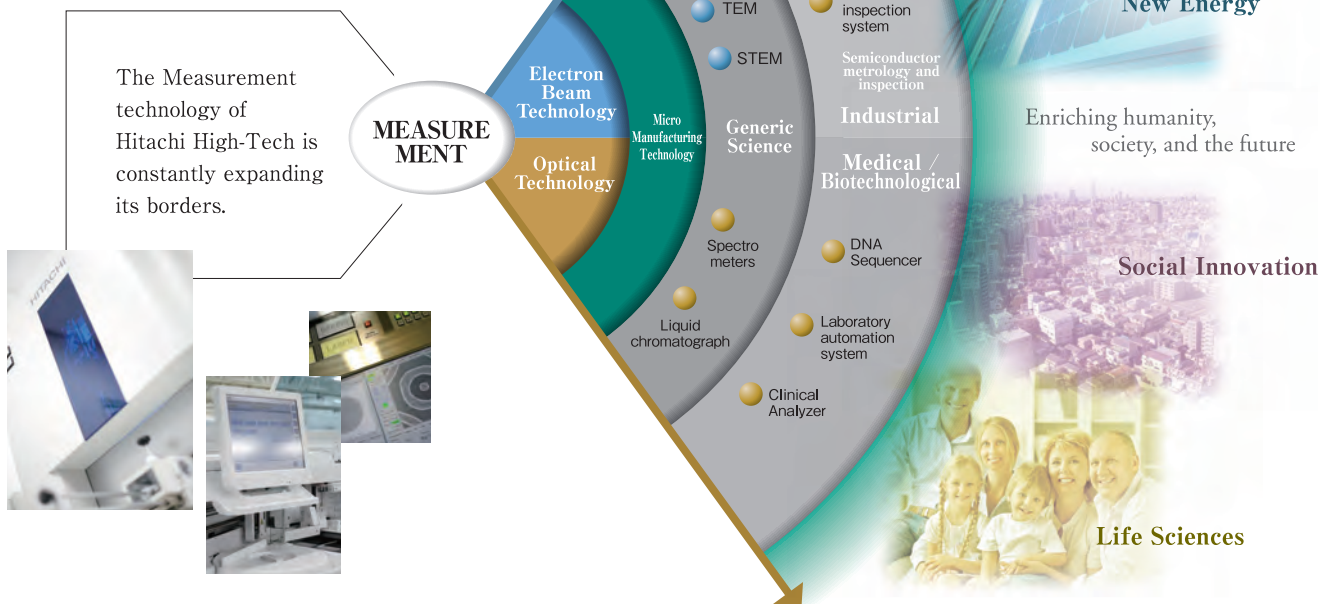
Nanotechnology is essential for manufacturing the semiconductor devices that have become indispensable in our daily life, used in products such as home appliances, which enhance our everyday life, and in devices such as mobile terminals, including smartphones, which support social infrastructures. Optical technology is also essential for compositional analysis in the hematology, food, and pharmaceutical fields.

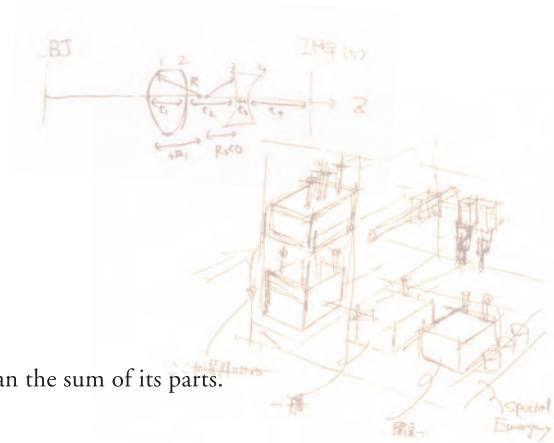
The prefix nano- means billionth; thus a nanometer is a billionth of a meter. To produce something with nanometric dimensions, the ability to measure a nanometer is essential. On the other hand, each molecule has its own intrinsic absorption or 'color', as well as its own mass and concentration. For component analysis, then, it is essential to identify the substance subject to the analysis, and to measure the concentra-

tion. For these reasons, observation and measurement are critical elements in evaluation and creation. Just like the micro-world itself, the workings of our technology are not directly observable; but it is our desire to make the best use of this technology in order to enrich our daily lives. This is the reason why Hitachi High-Tech has taken on so many technological challenges.

Aiming ultimately at the enrichment of our lives, enhancing the social infrastructure, and supporting human life, our technologies are always progressing, from visible to measurable — to invaluable.

Hitachi High-Tech's technological capabilities and its expanding business fields





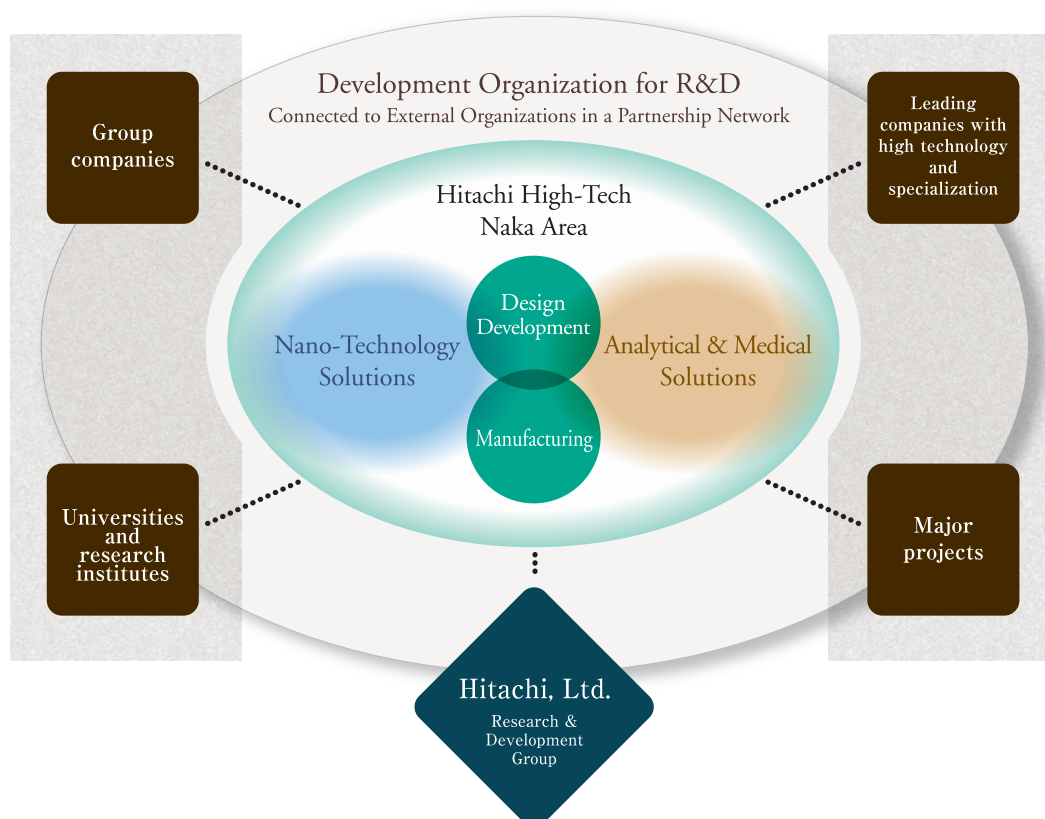
## Continual Creation

Where engineers with different specialties come together, diverse skills and interests interact, and the whole becomes greater than the sum of its parts. Such synergy opens the door on the cutting edge.


Hitachi High-Tech, Naka Area is engaged in design development and manufacturing in the business fields of nano-technology solutions and analytical & medical solutions. The most significant feature of this Area is its extremely high technological capability. Based on its broad range of technologies, we manufacture semiconductor inspection systems as well as clinical analyzers. In addition, it reflects not only Hitachi's DNA but also Hitachi's culture, in which strong synergy effects are achieved through cross-sectoral activity. Our passion for meeting challenges through the development of cutting-edge technologies is nourished by the constant interaction of engineers with different specialties, who feed off each other, overcoming organizational barriers.

Backed up by our proven technologies, we are also expanding our networking with Hitachi, Ltd. and various other enterprises, universities and research institutions, as well as facilitating partnerships with many companies operating worldwide.

Seeking the new or surprising has been the main theme throughout the history of Hitachi High-Tech—continual and ever-increasing creation.







Electron beam and Optical technology  
Two core technologies of Naka Area, building momentum for the future

■ ■ ■  
Electron Beam & Optical

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As a technology cluster, Naka Area plays an important role in constantly developing and manufacturing new products, most notably electron beam and optical technologies.

A host of cutting-edge products in various fields,  
including semiconductor devices and medical/biotechnological instruments,  
have been introduced to the world by Naka Area. Now,  
aiming at even higher levels of quality and performance,  
Naka Area faces the future with confident enthusiasm.



## Electron Beam Technology

We want to see it. More clearly. More easily.  
The history of technology is the story of a ceaseless effort  
to meet the growing needs of humankind.

**As one of the world's leading companies, we are making our own distinctive contribution to the advancement of science and medical technology.**

Electron beam technology is utilized in the creation of our principal products, such as electron microscopes and CD-SEMs, which play an important role in manufacturing semiconductor devices. A CD-SEM is a Critical Dimension Scanning Electron Microscope, which is used for dimension measurement of the microscopic circuit patterns on semiconductor wafers. It is indispensable equipment for the mass production of semiconductor devices.

With the aid of such advanced technologies, we have continually satisfied our customers' high-level requirements, as evidenced, for example, by the use of our products in the evaluation of the samples brought back by the Hayabusa

asteroid probe. Such high-profile utilization has gained Hitachi High-Tech a worldwide reputation as a major contributor to the advancement of science and medical technology.

**Keenly aware of the human factor, we consistently focus on operational performance from the user's point of view.**

For example, electron microscope technology initially emerged from the fundamental human desire to see things too small to be seen; a desire that continues to inspire us to improve resolution. With this came the desire to see such small things more clearly; and this led to a more specific and sophisticated desire: to see only what is necessary.

This heralded a new era in microscopic visualization, that of



quality rather than quantity, in which we have satisfied new demands, for material identification. And as the number of functions and complexity of operations continue to increase, we are expected to provide not only higher and higher resolution, but a more and more user-friendly and communication-oriented man-machine interface. This is the sort of challenge we welcome, as we continuously pursue the ideal form of electron microscope, responding to the ever-changing needs of the times.

### Responding to a particular need, to observe air-sensitive materials

With the advancements in semiconductor miniaturization, extremely high precision has become essential in the industry. In these circumstances, through our continuous efforts in research and development, we have built a significant presence in the field of nanotechnology. The results of these efforts are incorporated in our various products, including the CD-SEMs that hold the top share of the world market.

However, there are always new challenges. At this time, for example, we are responding to a need to observe air-sensitive materials. With the pride and the responsibility of a leading manufacturer, we are permanently and actively committed to R&D, always asking ourselves, 'What can we do to make a better world?'



Putting a sample on the holder of electron microscope



LCD for monitoring the room of the chamber in vacuum condition

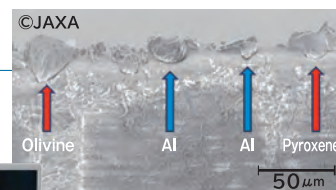
## T O P I C S

Electron Beam Technology

### Hitachi High-Tech contributed to the evaluation of the samples brought back by the Hayabusa.

Hitachi High-Tech took part in the evaluation of the samples of cosmic materials brought back by the Hayabusa asteroid probe. Our clean chamber, for example, minimized the influence of terrestrial elements on the samples, while our manipulation system handled the process of opening the capsules, and dividing and storing the samples. In addition, our field emission-scanning electron microscope and X-ray spectroscopic analyzer enabled high resolution observation of the samples. In this way, our products and technologies played a critical role in the great search to solve the mystery of the birth of the solar system.

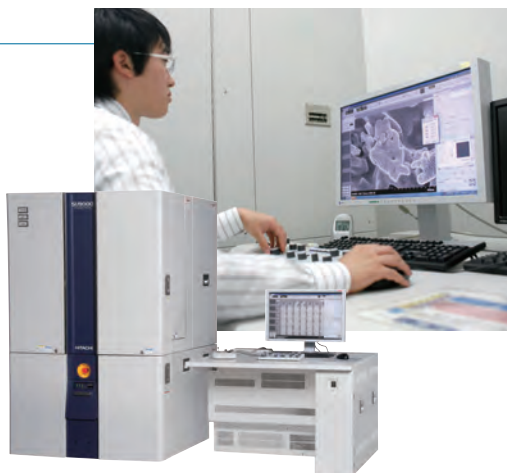
S-4300SE/N



An electron micrograph taken by the S-4300SE/N, showing details of the particles brought back from the Itokawa asteroid



The highest-end model of our SEM lineup,  
designed to meet the most advanced needs  
『SU9000』



Nanomorphological observations are essential to the development of nanoparticle-based advanced materials. Hitachi High-Tech has been working on the development of a scanning electron microscope (SEM) that can routinely achieve subnanometer resolution. Combining advanced technologies with experienced craftsmanship, the SU9000 breaks new ground in the application of cutting-edge technology for the next generation. Its preeminent performance, a function of its unparalleled specifications, makes it fully deserving of its highest-end status.

Fully digital imaging transmission electron  
microscope, operable without dark room  
『HT7700』



This model has been developed with optimal digital image detectors arranged at optimal positions, ensuring a comfortable and effective operational environment. Observations are made with a real-time digital camera with greater sensitivity than that of the human eye. As images are recorded in digital format, they are easier to incorporate into an image database, and to analyze, adjust, process, and use in creating microscope functions such as auto focus or auto image acquisition. Electron optics was designed to meet a wide variety of requirements in the fields of biology, pathology, anatomy, nano technology, and soft materials science.

The top market share holder, with excellent  
measurement performance  
『CG6300』



The CG6300 achieved the highest resolution, as well as the highest accuracy and reproducibility of measurement, in the history of Hitachi CD-SEMs. Beyond its superior basic performance, however, it is equipped with a high precision process monitor and offline recipe processing function, to improve overall productivity. It is with great pride that we deliver this CD-SEM, worthy of our customers' trust. Holding the world's top market share is a testament to our commitment to innovation, as well as our visionary perspective on the future.

An optical wafer surface inspection system  
that enables highly sensitive inspection  
『LS9200』



Development of this optical wafer surface inspection system was initiated in the late 1970s, and our continuing effort to achieve ever greater sensitivity has resulted in the system becoming one of our longest-selling products. In 2005, we commenced the development of the LS9000 series, which offers a new type of wafer surface inspection system for post-32 nm generation chips. With its unprecedented sensitivity, the LS9200 has already acquired a high reputation, confirmed by a Technology Innovation Award.



## Optical Technology

A world leader through constant innovation.

**Naka Area is represented by two major optical technologies: spectroscopy technology and image processing technology.**

In Naka Area, there are two major categories of optical technology products, one based on spectroscopy technology and the other on image processing technology.

Spectroscopy technology has made a significant contribution to the development of the medical field in particular. Typical applications of this technology include automatic analyzers for liver function tests and high-performance liquid chromatography (HPLC) to detect chemical components. Recently, spectroscopy has also been utilized for genetic testing, in DNA sequencers, which analyze gene arrangements. Our products have the world's top market share in this field as

well, along with an excellent worldwide reputation.

Our image processing technology enables the detection of tiny defects or foreign particles in the circuit pattern on a silicon wafer, and is applied to various products such as semiconductor inspection equipment.

**From the earliest years of its development, we have pursued unparalleled quality and performance in this technology.**

Spectroscopy technology has a long history, and has continually progressed since the mid '50s, when it first gained worldwide attention. The Hitachi Group has devoted itself to research and development of this technology since its very

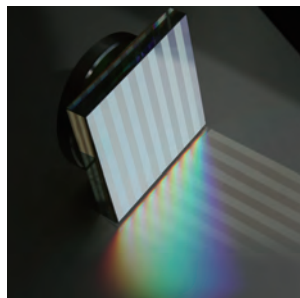
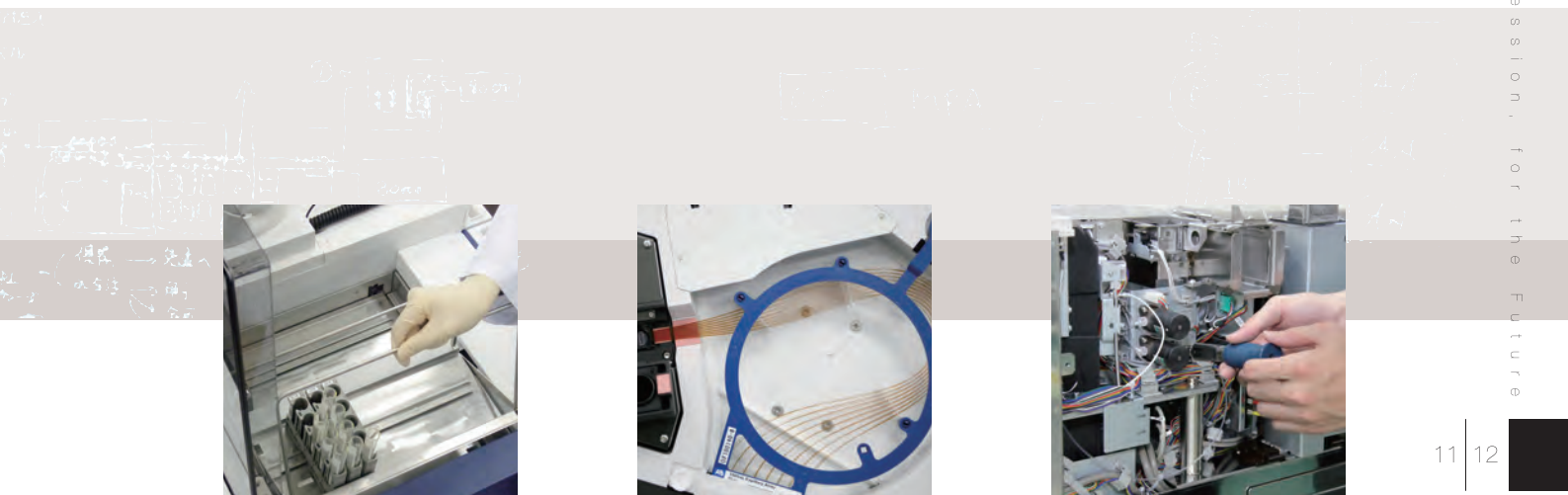
early stages.

The core technology behind spectroscopy is the diffraction grating, which consists of equally spaced parallel grooves on an optical material such as a mirror. The distance between adjacent grooves is 0.1 micron, which means that 1,000,000 precisely parallel grooves per 100 mm must be created. As this is technically very demanding, only a few companies in the world can create such a diffraction grating, suitable for use in high precision instruments. Naka Area, however, has independently developed and refined such technology, which has become a foundation of our broader spectroscopy technology, and is utilized in various products.

Our image processing technology, on the other hand, evolved out of necessity. Roughly twenty years ago, when semiconductor processing technologies and inspection

technologies were still in the early stages of development, the Semiconductor and Integrated Circuits Division of Hitachi, Ltd. had not yet grown into a world leader in the industry.

And here was the challenge: to create superior products surpassing those of any other tip device manufacturer. In the resulting independent in-house development, no compromise was acceptable. Out of this intense and sustained effort, our technologies and wisdom in manufacturing and inspecting semiconductor devices emerged, and have been passed down from generation to generation.





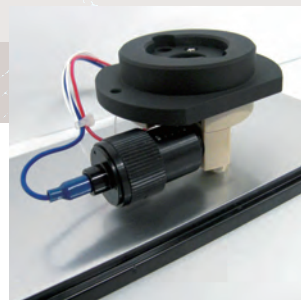
## Inspired by the spirit of technological inquiry and a vision of the future.

There is intense competition among countries involved in the development of life science equipment, and technological innovation is rapidly progressing. Under these circumstances, we cannot be content as the industry leader in the global market.

Instead, we are committed to continual reinvention and refinement, both of our technologies and systems, and of ourselves. Through broad and creative applications of our spectroscopy technology, which we have cultivated since the early stages of its technological development, we will seek to develop next-generation products embodying game-changing ideas; and the most important element in this process is how

well we understand the market's needs.

A given R&D process usually takes at least two years to bring a new product or model to the market. This means that we must anticipate and respond to the future needs of the society and the market at least two years in advance. Therefore, our continuous development of new products is based not only on potential improvement of our technologies but on our vision of the future.

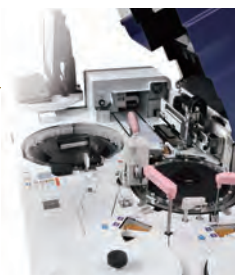


## T O P I C S

Optical Technology

Biochemistry, ISE, HbA1c, coagulation, and scattering; Hitachi Automatic Analyzer 3500 enables “Five kinds of measurements in one instrument.”

Based on the technologies and experiences developed and acquired by Hitachi Group, we have designed the Hitachi Automatic Analyzer 3500, a sophisticated automatic analyzer evolved from a clinical chemistry analyzer. Using a variety of functions and the new optical system technologies incorporated into this device, inspection institutions can customize the system most suitable for their business style. The analyzer fully meets the expectations of clinical laboratories, “reporting sample inspection results quickly and accurately.”



Hitachi Automatic Analyzer 3500

Advances in automatic analyzers lead to improved clinical laboratories.

## 『LABOSPECT 006』 『LABOSPECT 008α』



Note: The device in this photo is the "LABOSPECT mobile" (for the LABOSPECT 008α).

Our first clinical automatic chemistry analyzer came on the market in 1970. Since then, Hitachi High Tech has been advancing the technology. We want to support medical offices by improving the quality of inspection data which leads to progress in service for patients. Our LABOSPECT 006/008α is an automatic analyzer that achieves rapid result reporting with its high-speed processing system, incorporating our latest technologies.

Satisfying the requirements of 24-hour medical service

## 『cobas pro® integrated solutions』

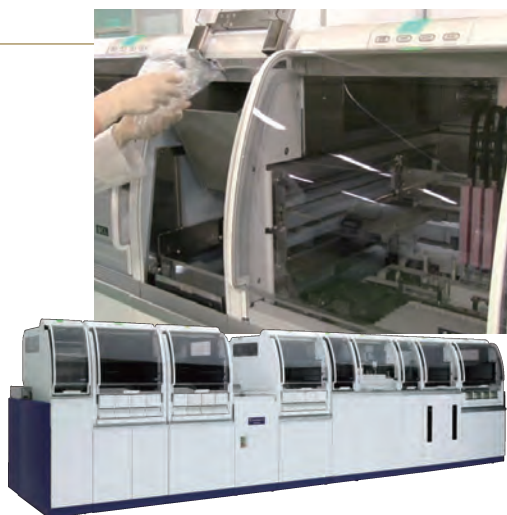


Meeting the requirement for "testing as needed, 24/7". The system is newly equipped with self-maintenance during the analysis, enabling users to significantly reduce their labor and time required for maintenance.

Moreover, ultrasonic cleaning of the sample probes makes the order of analyses among ISE, biochemistry (c503), and immunity (e801) more flexible, enabling the system to provide inspection data more quickly and accurately. cobas pro® integrated solutions are widely used in clinical laboratories around the world.

Hitachi Pre-Analytical Automation System contributes to pre-analytical processing at hospitals.

## 『LABOSPECT TS』



Hitachi High-Tech contributes to pre-analytical processing, by automating and accelerating the pre-analysis and analytics processing in specimen inspection. The LABOSPECT TS modularizes the pre-processing functions of centrifugation, decapping, aliquoting, barcodes attachment, etc. LABOSPECT TS provides a system customized perfectly to the operation of a given laboratory by combining these modules. LABOSPECT TS series evolves by incorporating user needs.

A DNA sequencer offering the usability that supports social innovation

## 『3500 Series』

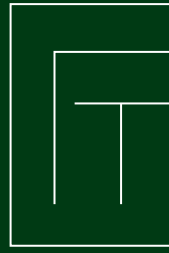


Applied Biosystems™ 3500 Genetic Analyzer

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Hitachi High-Tech DNA sequencer has been used in many countries since its launch in 2000, and played a major role in the Human Genome Project completed in 2003. The 3500 series is designed to focus on user convenience, such as the management of expiration dates and remaining consumables by employing IC tags. The series will continue to evolve, from the research field, such as genetic analysis, to the application field, such as DNA identification.

It is our exquisite craftsmanship that ensures  
our products' place on the cutting edge.



TAKUMI

+

Advanced Technology

We are constantly striving to  
improve our skills

## The key to superior technological developments is the development of the human mind.

Naka Area's approach to monozukuri is characterized by the cooperative relationship between designers and technicians in giving a concrete shape to their ideas. They take pride in manufacturing products that can contribute to society.

To stay at the forefront of constantly advancing technologies, the skills required to create the world's highest quality products must be constantly cultivated. This strong work ethic of Naka Area has been, and will continue to be, passed on through generations. The production site of Naka Area consists of various components, including the manufacture of parts and units, communication with designers, control of the entire production process, and the inspection of completed parts and units. These components interact with one other to support the monozukuri of Naka Area. Our technicians are always trying to find a better way, through constant discussion, while making efforts to improve their individual skills. Owing to the passionate commitment of such technicians, our products consistently maintain a preeminent reputation in the market.

## It is not only our skills but our pride that we hope to pass on to future generations.

The National Skills Competition is held to provide young technicians with opportunities to compete with each other in their own skills category. We participate in this competition every year and have achieved remarkable results. In addition, we have won gold medals at World Skills Competitions, demonstrating that our techniques are among the world's finest. These competitions provide young technicians with goals and objectives that will encourage them to continue to improve their skills. Our leading-edge products are supported by the special techniques traditionally handed down to younger generations from highly skilled veterans. An enduring sense of pride is engraved on the hearts of technicians in the process of developing and transferring skills.



Some processes, such as cutting or polishing, require extreme precision. Constant attention to and improvement of our skills are the only way to ensure this. This is why we carry out strenuous training on a daily basis. Whether learning skills from senior colleagues, or receiving encouragement from co-workers, we continue to grow, both as people and as technicians.



# 1961

## History of Hitachi High-Tech, Naka Area

Our history has been defined by creative responses to a series of challenges to produce cutting-edge technologies, and continuous devotion to the realization of our goals.



1961 /  
Naka Works around the Time of Founding



1973 / HFS-2  
Field Emission Scanning  
Electron Microscope



2012 / IEEE Milestone Plaque

\* IEEE (pronounced "eye-triple-E") :  
Headquartered in the U.S.A., the  
Institute of Electrical and Electronics  
Engineers is the world's largest  
professional association of electrical,  
electronic, information, and  
communication engineers, with more  
than 400,000 members in 160  
countries worldwide.

### 【1961】

The Naka Works was established by sectioning part of the Taga Works, Hitachi Ltd.

### 【1970】

Commercialized Japan's first automatic clinical chemistry analyzer

### 【1972】

Commercialized world's first field emission type electron microscope

### 【1984】

Commercialized world's first CD-SEM

### 【2000】

The genetic analyzer contributed to the rapid completion of the human genome analysis

### 【2001】

Renamed as Hitachi High-Technologies Corporation Naka Area through subdivision from Hitachi, Ltd.

### 【2012】

Received the prestigious IEEE\* Milestone designation for the practical application of the field emission electron microscope

### 【2014】

Selected as Global Niche Top Companies Selection 100 for capillary electrophoresis DNA sequencer

### 【2018】

Registered as significant science technology record by National Museum of Nature and Science for Hitachi 705 automatic clinical analyzer

...



1970 / Hitachi Model 400  
Automated Analyzer



1969 /  
Assembly Site for Optical Instruments



1984 / S-6000  
Semiconductor Inspection  
Scanning Electron  
Microscope



2014 /  
Applied Biosystems™ 3500  
Genetic Analyzer  
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Seeing what could not be seen. Measuring what could not be measured. Naka Area has consistently pursued these challenging aims, and achieved them with uncustomary success. We have always been one step ahead of our time, and this is our inherent attitude and aim. Naka Area has already begun visualizing and anticipating the future, 50 years from now.

Fifty years from now has already begun.

# Attitude to Society

## Approach to quality assurance

Our attitude toward quality is based on the principle of separation of duties

The Quality Assurance Department has the critical responsibility of ensuring that our clients' trust is merited. This is our unshakable attitude toward quality, which we maintain in all our dealings with foreign countries, whose cultures or values may differ from our own. For instance, the Department discusses the specific after-sales service best suited to each respective country. It constantly gathers feedback from customers around the world via the internet, and carefully integrates their comments and requests into maintenance services. These consistent efforts inevitably lead to higher levels of customer satisfaction and reliability.

Hitachi High-Tech works on the principle of separation of duties: designing, manufacturing, and quality assurance. The Quality Assurance Department is ultimately responsible for the products and services delivered to customers. To fulfill this responsibility, the Department is committed to product quality from the designing stage. This attitude toward quality defines the distinctive tradition of Hitachi High-Tech.



The Quality Assurance Department is committed to product quality from the earliest development and design stages. Its activities include follow-up services after delivery. Its business area covers the entire world.

## Total Quality Management

Flow of product development and quality assurance

Product planning



Most departments participate in this stage, sharing customer feedback for the improvement of new products.

Designing



Various design reviews of new hardware and software are conducted, to achieve the highest quality from the earliest stages of design.

Testing & certification



Type approval tests are conducted using prototypes of new products. The products are tested for conformance not only to domestic laws but also to those of relevant countries.

Production



Early manufacturing lots are examined in detail for consistency in performance and quality, and also to identify problems in the fabrication process.

Shipment



Products are only shipped after passing acceptance tests by the Quality Assurance Department. Product quality is rigorously maintained throughout shipment.

Installation



When the product is installed at a customer site, its specifications are checked for conformance to customer requirements. Also its suitability to the user environment is confirmed.

After-sales service



After-sales service includes the important duties of immediately solving problems at the customer site, and ensuring that customer feedback is reflected in product development.

Delivers reliable quality throughout the world and preserves  
the environment from a global perspective.  
Our efforts build trust and improve the brand.

## Harmony with the environment

Protect the environment with our mind,  
wisdom, and actions

Hitachi High-Tech Group promotes environmental business practice and environmental management based on the Hitachi Group's ecological vision. As part of this practice, Hitachi High-Tech became the steward of roughly 2.3 ha of national forest in Ishioka City, Ibaraki Prefecture in 2005, using the Hojin-no-Mori (corporate forests) system established by the Forestry Agency. We named the forest the "Hitachi High-Tech Yasato-no-Mori", and have since been engaged in a 60-year tree-planting project.

At Naka Area, we are actively involved in tree-planting, as a member office of the Hitachi High-Tech Group, to achieve a sustainable society in harmony with the natural environment.

### ◆Pruning and thinning activities by employee volunteers

"Pruning" involves cutting off some of the branches of a tree to encourage better and knotless growth. "Thinning" involves the removal of some trees in a thick forest to increase the amount of sunshine that reaches the ground. Both are essential for the healthy growth of trees.

At Naka Area, some employees conduct forest-improvement activities every year as volunteers. They enjoy climbing a mountain for about an hour to

reach the Yasato-no-Mori Forest. Then, the members are divided into groups and given instruction on how to prune and thin trees using the prepared tools, in cooperation with other group members.

We will continue this forest-improvement activity involving volunteer employees and their families, in cooperation with the Ibaraki Forest Management Office and the Haga Area Forest Association.

### ◆Daily environmental conservation activities lead to a better future

Currently, more than half the total sales of the Naka Area consist of environment-friendly products, and we are making further efforts to increase the production of such products. Driven by social demands, many of our products are now adopting environment-friendly design (eco-design).

At Naka Area, we contribute to developing a sustainable society while considering the necessity of improvement in the procurement and working environment, as well as reduction in the environmental burden from the product development phase through to disposal.

As many of our products are exported overseas, we strive to purchase materials from 'green suppliers' certified by the Hitachi Group Environmental Management System. Our ongoing environmental activities will continue to result in useful and environmentally friendly products for people's lives all over the world.

Meanwhile, to promote energy conservation efforts throughout the entire Naka Area, we are systematically replacing existing transformers and air conditioners with high-efficiency types, and supporting the introduction of motion sensor lighting systems in common areas.

We are also working on the reduction of CO2 emissions from a variety of perspectives; for example, no-overtime days are set for the entire Naka Area and even for individual departments.



Forest-improvement activity at the Hitachi High-Tech Yasato-no-Mori Forest, conducted each year by volunteer employees and their families, who enjoy environmental conservation activities such as pruning and thinning.



## Community contribution and support for sports activities

### Fulfilling our social responsibilities as a corporate citizen aiming at a sustainable society

#### Together with community and society

Our responsibilities and  
roles as a corporate citizen

The Hitachi High-Tech Group promotes social contribution activities based on the Hitachi Group's overall policy to address social challenges, taking advantage of the strengths of the group. Based on this policy, we at Naka Area are also working on social contribution activities, focusing on 'human resource development' and 'community contribution' in addition to the abovementioned 'environmental conservation'.

#### ◆ Actively support educational activities using electron microscopes

In Japan, as in other developed countries around the world, a common challenge has emerged: children's lack of interest in scientific matters, and the difficulty of developing human resources in scientific fields. For companies, this trend may result in difficulty in ensuring human resources for research and development activities, thereby hampering efforts to increase the competitiveness of companies. Children's alienation from science subjects has become a significant social challenge in Japan, as it may lead to delays in the development of scientific technology. To address this challenge, Hitachi High-Tech provides science program support activities utilizing the company's desktop electron microscopes. At Naka Area, electron microscope-based experimental study programs are also offered for elementary school students in the community. The programs aim to encourage children's interest in science and technology by revealing familiar objects, such as insects, plants, hair, and pencil leads, on a micro-scale.



Science class as part of a program using electron microscopes in collaboration with elementary school teachers in the community, enhancing our coexistence with local communities.

Our activities extend not only throughout Japan but also overseas, to Asia and the ASEAN regions.

#### ◆ To be a benefit to the community

As members of society, businesses are required to contribute to building and supporting a better society. The Hitachi High-Tech Group aims to be a benefit to the community as a corporate citizen. To this end, we strive to contribute to resolving community issues and promote community development, as well as to build good relationships between the community and businesses, utilizing existing corporate resources.

At Naka Area, we are also involved in community contribution activities based on this idea.

#### Thorough disaster management and risk reduction in normal times

Naka Area is engaged in business continuity management as a member of the Hitachi Group, and promotes the development of risk reduction measures and business continuity plans (BCP) such as disaster management, on a regular basis, as well as seismic retrofitting of buildings based on laws and regulations. We are also working on continual improvement through the certification of the business continuity management system and PDCA cycle, and making efforts to raise the awareness of all employees, so that we can assume the role of a local disaster management base in the event of a disaster.

#### Interacting with the community

Naka Area welcomes a variety of stakeholders, through opportunities such as its open factory day events. For example, we organize an open factory



Midsummer Festival, an August event on the factory premises, to welcome and interact with people in the community

event called 'Midsummer Festival' every August, to interact with people in the community. On the festival day, we welcome people to visit our facilities, and offer various attractions such as environmental quiz games, to deepen their understanding of global environmental issues. Many visitors, especially children, enjoy these events.

#### Voluntary support in the Katsuta Marathon

Every year, more than 10,000 runners gather from all over the country to participate in this citizens' marathon. Many Naka Area employees participate in the operation of the event as volunteers, such as traffic control guards and scorers. We will continue to support the smooth operation and execution of the event through volunteers.

### Cougars, our lively basketball team

Team initiatives, as a sporting symbol of our company and community

Cougars—members of the WJBL (Women's Japan Basketball League)—are a women's basketball team sponsored by Hitachi High-Tech. The team was born in 1961 at Naka Factory. Since then, the team has been evolving for more than 50 years, together with our employees, as a sporting symbol of the company.

The team changed its name to Cougars in 2008, to capture the lively spirit of the team, which plays with an all-out, full-court, high-energy style that delights its many fans.

The vision of the team is "Creating a sense of unity among employees and improving corporate values through basketball"; reflecting the spirit of the Hitachi High-Tech Group (Hitachi High-Tech SPIRIT)—"Challenge - Open - Speed - Teamwork"—through basketball, creating a sense of unity among employees, encouraging them through the team's efforts and achievements, and contributing to improving corporate value through social contribution activities.

#### Building relationships with local communities through sport

As part of its social interaction activities, the team has held Cougars Basketball Skill Classes for local

elementary and junior high school students for many years, and the event has now spread throughout Japan as a 'basketball clinic'. The guidance provided by players and coaches to the students is highly appreciated in various regions in Japan, and the activity is useful in conveying the joy of basketball and improving children's core basketball skills. In addition, each year, the team visits Ibaraki Fukushima Kojo (welfare factory) to hold a social gathering as part of the support for the challenged workers.



Cougars basketball match

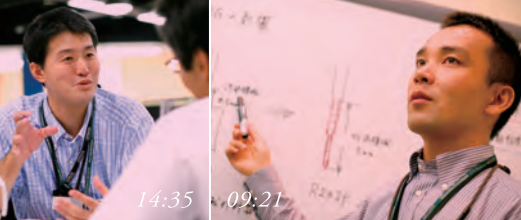


Cougars gymnasium, which can be used as an emergency shelter by the community in case of a disaster.



Cougars members playing basketball with elementary school students





14:35 09:21



10:38



10:27



16:40



12:45



08:35



15:51

Challenges, and sincere efforts  
A place of focused concentration.

Eyes that look toward the future. Conversation. Smiles. Discussion.  
People dedicated to their work.



15:50



11:19

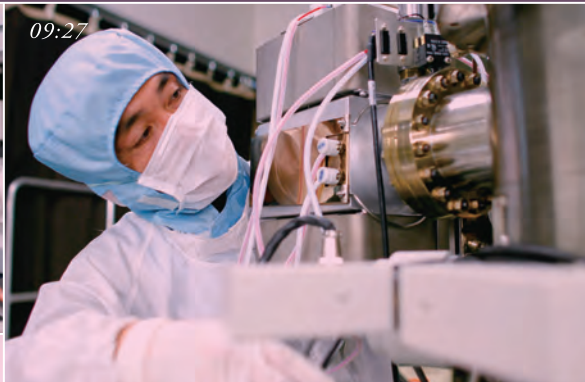
08:46



13:11



11:33



09:27



10:42



11:23



12:09



14:50



15:01



10:10



11:33



09:35



15:14



13:31



15:55



11:38



14:09



## C o r p o r a t e   P r o f i l e

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### Hitachi High-Tech Corporation

#### Locations

##### ■Head Office

Toranomon Hills Business Tower, 1-17-1 Toranomon, Minato-ku,  
Tokyo 105-6409, Japan

##### ■Naka Area

- Naka Site 882 Ichige, Hitachinaka-shi, Ibaraki 312-8504, Japan
- Naka-Marine Site 552-53 Shinkocho, Hitachinaka-shi, Ibaraki 312-8504, Japan

##### ■Group companies of Naka Area

#### [Manufacturing sector]

##### ◎Hitachi High-Tech Manufacturing & Service Corporation

Design and manufacture of products, parts, and software for semiconductor manufacturing and testing equipment, analytical and medical equipment, electron microscopes, etc.; support services for design and manufacturing businesses

##### ◎Hitachi High-Tech Kyushu Corporation

Design and manufacture of medical analyzers and biotechnology-related devices, and consumables for such devices

##### ◎Hitachi Instrument (Suzhou), Ltd. (China)

Design, production, sales, and after-sales service of measuring, analytical, evaluation instruments, etc., as well as related parts and consumables

##### ◎Hitachi Instruments (Dalian) Co., Ltd. (China)

Production and sales of analytical instruments, medical device units, and service parts, etc., design and application service of analytical instruments, and software development

##### ◎Hitachi High-Tech Science Corporation, Naka Works

Development, manufacture, and sales of analytical, measuring, and observation instruments

##### ◎Hitachi High-Tech Solutions Corporation, Mito Works

Planning and design of industrial instrumentation, control instrumentation, information processing devices, analytical and measuring instruments, factory automation systems, etc.; development and sales of engineering and software products

#### [Service sector]

##### ◎Hitachi High-Tech Fielding Corporation

Installation and maintenance of products related to semiconductor manufacturing and testing equipment, electron microscopes, analytical instruments, and instrumentation devices, and sales of parts and supplies

##### ◎Hitachi High-Tech Support Corporation

(Naka Area) Ibaraki Support Center  
Maintenance of measurement instruments and drawings, scanning service, and parts manufacturing



<https://www.hitachi-hightech.com/jp/>

