



Mitutoyo



MEASURE

Precision measurement is called the mother of industrial technology. Its status continues in every manufacturing setting around the world and is now all the more important in the technological revolution of "Industry 4.0." Factories and manufacturing itself are becoming ever more advanced, and the role of precision measurement will inevitably follow that trend.

Founded in 1934, Mitutoyo's philosophy has been "to contribute to the wellbeing of society through precision measurement technologies." Under this guiding principle, Mitutoyo has expanded into global markets as a comprehensive manufacturer of precision measuring instruments.

Our challenge now is not in measurement alone, but to create solutions for our customers' futures. From developing optimum analysis environments, to process improvement for on-site applications of Mitutoyo equipment, and on to the realization of factories that do not sleep through the utilization of measurement data—the foundations of manufacturing run deep and the possibilities run deeper.

**Going beyond measurement.
The smart evolution of Mitutoyo begins now.**



and...



Mitutoyo is changing manufacturing by innovating how you measure.

Smart factory actualization support

M³ Innovation

Traditionally, precision measurements have been performed in a laboratory separated from the production line. But Mitutoyo envisions a future where measurement and production are integrated to enable autonomous and sustained processes for a factory that never sleeps. Mitutoyo's M³ concept of Measure (measurement efficiency), M2M (Network architecture beyond specifications and standards), and Manage (analysis and utilization of measurement data), will set in motion a global change in manufacturing.

Measure

Innovative Measurement to Support Smart Factories

On the line, next to the machinery. Mitutoyo is challenging the conventional wisdom of having to take measurements in a separate laboratory, offering precision measurement testing without impeding production line flow. What follows is a fully automated process from fabrication to testing, realizing new ways to measure in the era of the smart factory.





M2M/Machine to Machine

New Platforms, New Heights

The Machine to Machine (M2M) concept is machine cooperation through a network to provide advanced processing and control. Mitutoyo is building a network that crosses the boundaries of specifications and communication standards to seamlessly connect various devices and measuring instruments. Never has there been a customer-centered platform so versatile in utilizing measurement data.



Manage

Measurement Data's Next Move

Not reacting to the problem, but ensuring problems do not happen in the first place. Stay one step ahead with our SMS online equipment status monitoring and MeasurLink® statistical measurement data analysis management systems that go beyond measurement to provide production solutions.



MeasurLink® is a registered trademark of Mitutoyo Corporation in Japan and Mitutoyo America Corporation in the United States.



Mitutoyo

MiSTAR 555

The world's factories want
Mitutoyo's higher quality.

Exploring the limits of precision measurement

1nm Capability

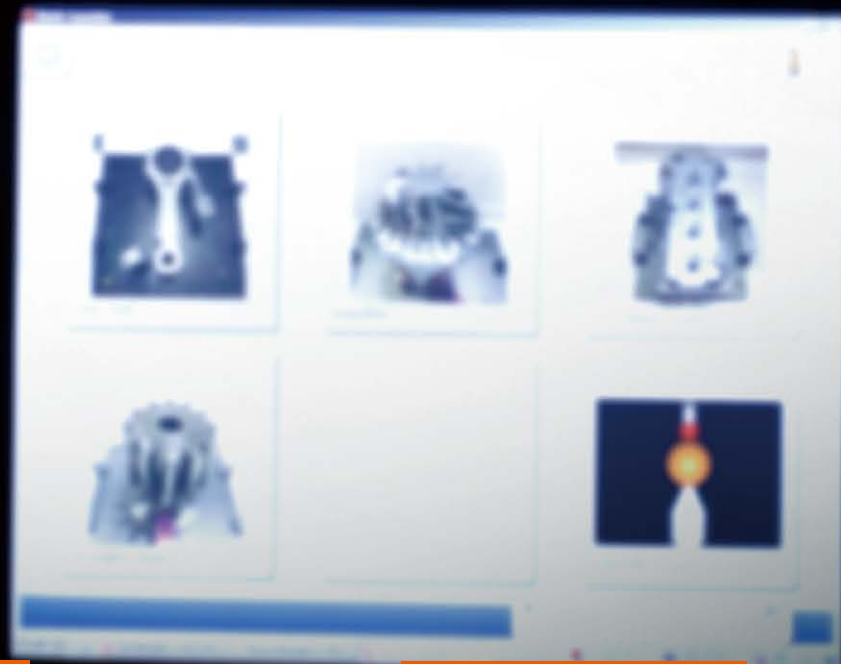
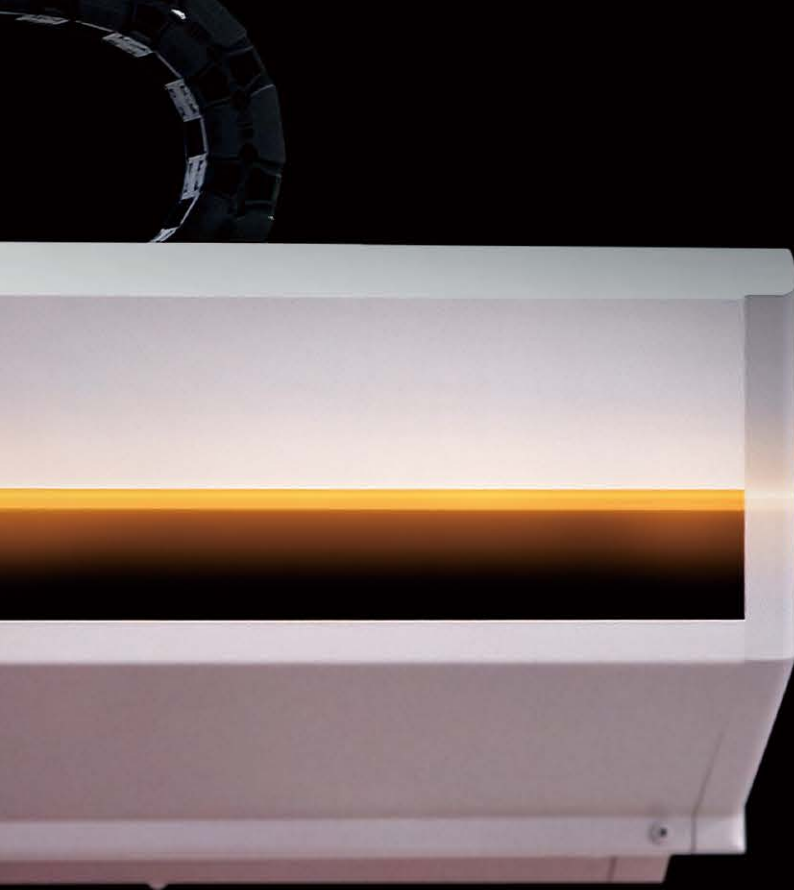
It is impossible to make something more accurate than the measuring instrument's accuracy. This is why precision measurement is called "industry's mother technology." Measurement accuracy is the lifeline of manufacturing, and Mitutoyo is capable of providing 1 nanometer accuracy, leading the way in today's world of ever increasingly advanced industrial technology. As a world leader in precision measurement, Mitutoyo continues to evolve.

Global Leader

Leading the Way in Precision Measurement

As a comprehensive manufacturer of precision measurement instruments the Mitutoyo name is known around the world. Mitutoyo products have a leading market share both in Japan and overseas and continues to be the choice across industries and nations. Major companies the world over put their trust in Mitutoyo.





Extensive Product Lineup

Over 5,500 Products

One of our strengths is our development of a wide variety of products to meet the diverse needs of manufacturers. We have more than 5,500 products including calipers, micrometers, dial gauges, shape measuring machines, hardness testers, optical instruments, image measuring machines, coordinate measuring instruments and more. It is no exaggeration to say that Mitutoyo products exist by the number of things that need to be measured.



Own Production System

In-house Key Technologies

To create products that our customers can trust, we maintain a policy of developing and keeping key technologies in-house. This includes a wide range of advanced technologies in machinery, electrical and electronic components, software, and optics. This integrated system and demanding policy are the unchanging DNA that make our products possible.



Our mission is for you to
keep using your Mitutoyo product.

Our support is also our brand

Mitutoyo Service

The relationship with our customer and their worksite does not end with the sale, but is the start of everything. Mitutoyo provides top-quality service to all of our customers as only a comprehensive manufacturer can do so you are able to use Mitutoyo products at their peak intended performance. We offer various full-system services in Japan and around the world from setup to software training, inspection and calibration, accuracy adjustment, maintenance and repair.

Calibration & Traceability

Traceability System for Highly Reliable Calibration Services

Our optical frequency comb is rated equal to the national standard. With our JCSS accredited traceability system, we are able to offer the highest level of reliability in calibration services. Calibration departments at our overseas locations are ISO/IEC 17025 international standard certified.





Customer Support

Mitutoyo Customer Support Centers

Mitutoyo has a global network of service centers staffed with specialists and customer engineers to answer any questions that you may have and dispatch technicians in case of repairs. Mitutoyo will be there when you need us.



Mitutoyo Institute of Metrology

The Science of Measurement

Established in 1975 for the training and development of metrological engineers. The curriculum is based on practical training experience covering the fundamentals, practices, and applications of precision measurement in manufacturing. Our institutes have been established at major locations around the world, and many of our customers attend classes every year.



From clothing, food and homes, to outer space, Mitutoyo measures the way ahead.

The technologies of measurement are fundamentally linked to everything around us—personal computers, home appliances, cars, mobile phones, and stationery and writing instruments. Mitutoyo products help form the foundation of today's advanced industries and supports the lives of people everywhere.

Measuring Length



Accurately measure the length of your product Micrometers and Calipers

A measuring instrument used on-site for industries of all kinds. Measures to an accuracy of 5/100 mm to 1/10,000 mm. The micrometer was Mitutoyo's first domestic success and the start of Mitutoyo's future.

Measuring Form



Measure surface roughness and form Contour and Roughness Measuring Machines

The Contracer developed by Mitutoyo has become synonymous with contour measuring machines that test molds, screws, lenses and other minutely detailed shapes. Mitutoyo's surface roughness testing machines are also actively used in many different fields.

Measuring Coordinates



Detect coordinate values of complex objects Coordinate Measuring Machines

Coordinate measuring machines capture shapes in XYZ coordinates. The crystallization of precision measurement technology, they are used for aircraft jet engine blades, car bodies, and rocket and satellite parts. Even complex structures can be measured with extreme precision.

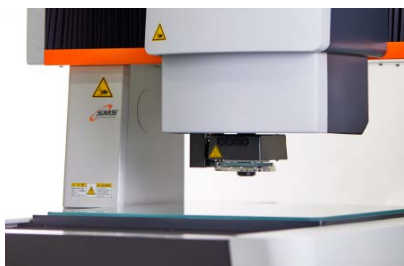
Providing Technological Solutions

Mitutoyo goes beyond offering measuring instruments as products and will work with you on personalized solutions that meet your needs. For example, we can offer software solutions for a sensing area derived from measuring machine technologies or that support on-site program operations. We will put our years of experience and expertise to work for you.





Image Measurement



Efficient, non-contact vision analysis Vision Measuring Systems

Through image processing, edges are detected to measure objects at high speeds and without contact. Visual measuring systems are suited for rubber and resin components, which can be deformed by gentle touch, and precision devices such as electronic substrates.

Measuring the Minute



Precision measurement with microscopes and optics Optical Instruments

Optical technology is essential for measuring glass substrates, liquid crystal color filters and other areas at the nano level (1 nm = 1/1,000,000 mm). At Mitutoyo, we develop our own lenses that become the eyes of optical instruments including our microscopes and vision measuring machines.

Measuring States



Measure hardness, and more Material Testing Machines

We handle material testing machines and vibration measurement equipment to meet a diverse range of needs, such as hardness testers that quantify the hardness of materials. Where site conditions change daily, Mitutoyo helps stabilize quality control.

The Evolution of Mitutoyo Design

Measurement precision is fundamental in our product performance, but design also plays an integral part in our business strategy and our company as a whole. In pursuing the beauty of form and the rationality of function, our new design that embodies the Mitutoyo brand is recognizable at a glance no matter the worksite, standing as proof of manufacturing precision and a symbol of Mitutoyo's co-evolution with the workplace.



The Mitutoyo Manufacturing Lifeline

Mitutoyo's technological capabilities are supported by our world-class R&D facilities, factories that utilize our advanced production equipment, and knowledgeable, experienced engineers.

Kawasaki Plant



The Mitutoyo Headquarters Kawasaki Plant annex was established as an intricate manufacturing system to support a broad range of small lot products such as visual measuring machines, objective lenses and optical instruments, laser scanning micrometers, and precision sensors. The facilities also include an on-site laboratory, which conducts R&D and product testing. This historic production center was established in 1940.



Utsunomiya Area Small Tool Plant/Microcord Plant/Kiyohara Plant



Based in Utsunomiya since 1944, Mitutoyo operates the Small Tool Plant (calipers and height gages) and MC Plant (coordinate measuring machines, large-scale vision measuring systems) in the Shimoguri area (100,000 m²). The "M³ Solution Center UTSUNOMIYA & Calibration Lab" was added in 2020 as a base for formulating solutions in collaboration with manufacturing sites. Furthermore, since 1982, it has operated the Kiyohara Plant (linear scales, electric modules) as a major component factory in a corner (34,000 m²) of the Kiyohara Industrial Park located 11 km away.



Hiroshima Area Kure Plant/Shiwa Plant



In 1947, the Hiroshima Laboratory was established in a place adjacent to the house where the founder of our company had been born. Today, this site is home to the Shiwa Plant, the center of our integrated production of micrometers. We also have the Kure Plant in Hiro-machi, Kure City, which produces form and optical measuring instruments; and the Precision Casting Department in Gohara-cho, Kure City, which specializes in material processing. Our history has been woven by operations at each site.

Nakatsugawa Plant



Operating in Nakatsugawa in Gifu Prefecture since 1997, the Nakatsugawa Plant is dedicated to manufacturing high quality, high-performance measuring instruments such as dial indicators. The Nakatsugawa Plant takes advantage of its geographic proximity to customers in the Chubu area that has thriving car and machine tool industries.

Kochi Plant



Opened in Konan City, Kochi, in November 2022, the Kochi Plant produces micrometer heads that play an important role in fine positioning and the feeding mechanisms used in a growing range of industries including semiconductors, electric vehicles, and electronic components.

Miyazaki Plant

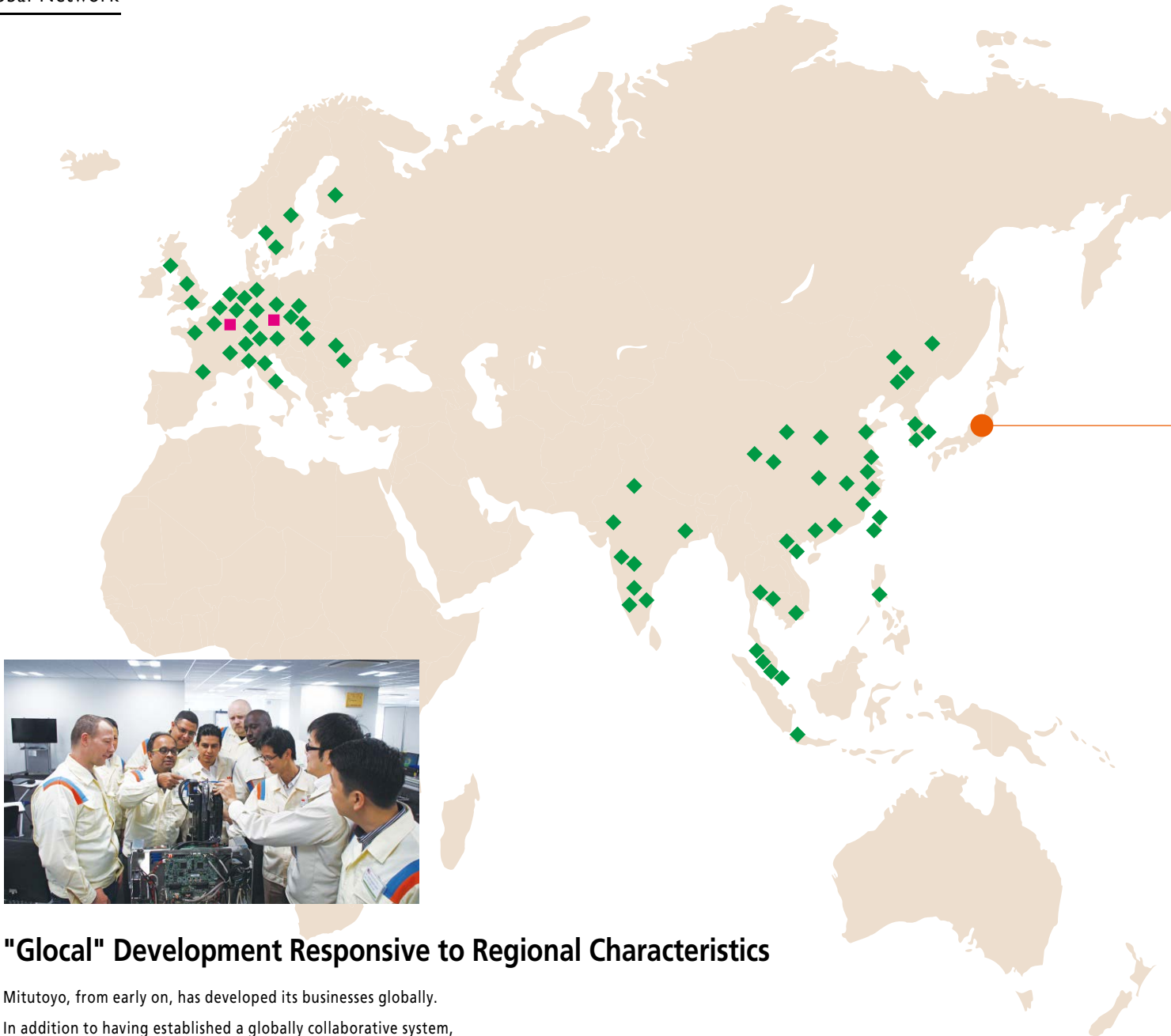


Boasting world-class quality, operations at our Miyazaki Plant began in 1985 in Tanocho, Miyazaki City as a specialized plant for gage blocks and other standards. In order to realize the nanometer accuracy required for gage blocks, we have a proprietary light wave interferometer installed in an underground precision measurement facility.

Research and Development Division



By taking advantage of our worldwide collaborative structure and the high level of expertise accumulated by our development bases, we continue to explore frontier technologies and develop new products to help our customers solve their problems. We have three bases across Japan, located in Kawasaki, Sapporo, and Miyazaki.



"Glocal" Development Responsive to Regional Characteristics

Mitutoyo, from early on, has developed its businesses globally. In addition to having established a globally collaborative system, we are strengthening local management that responds flexibly to the unique characteristics of each region to always provide the optimal solutions for customers wherever they may be.



Headquarters



Small Tool Plant /
Microcord Plant



Kiyohara Plant



Nakatsugawa Plant



Kure Plant



Miyazaki Plant



Mitutoyo America Corporation



Mitutoyo Europe GmbH

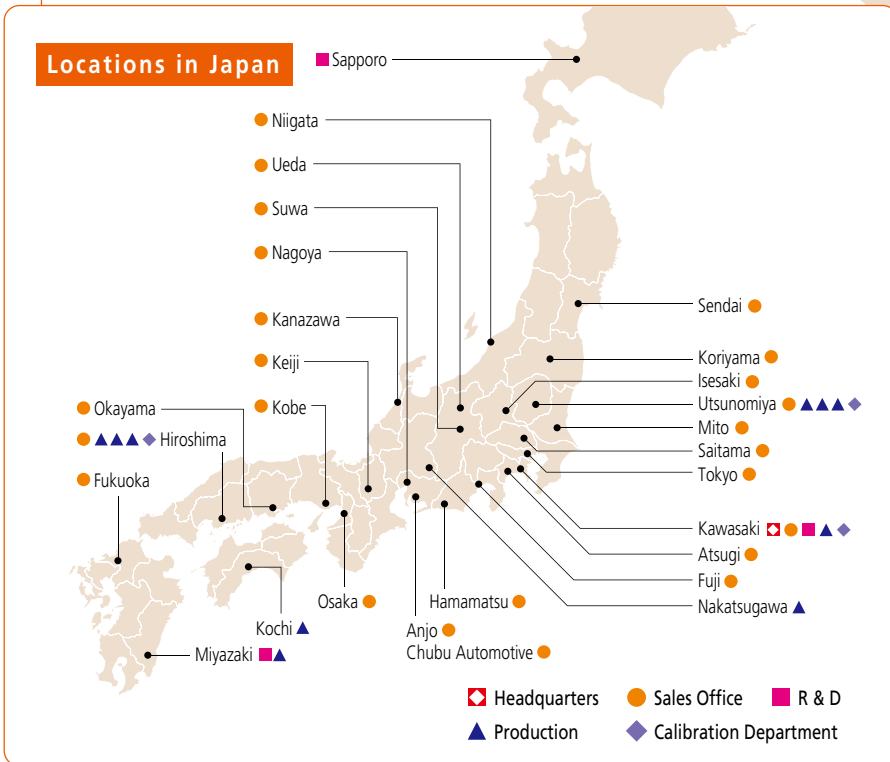
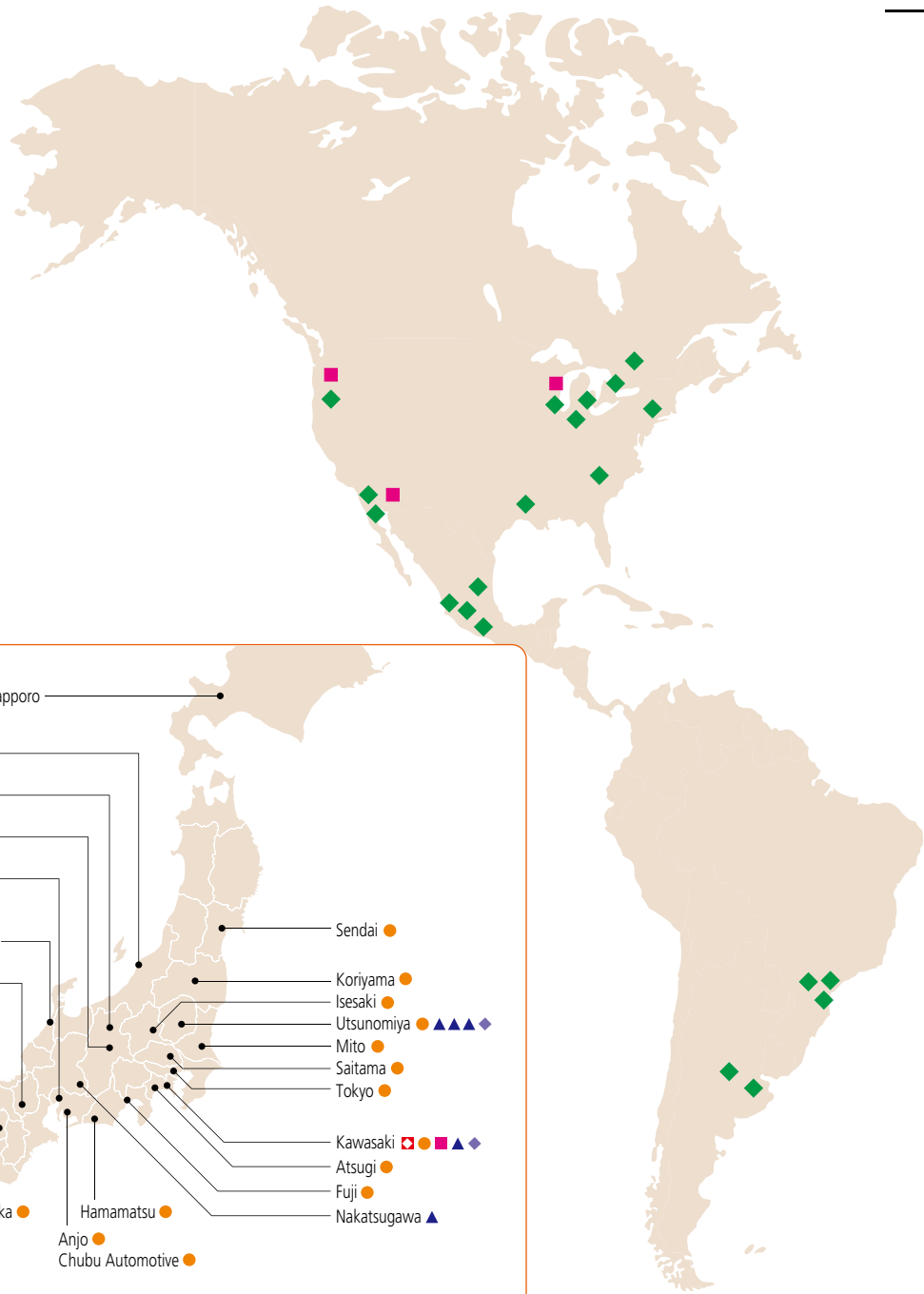


Mitutoyo Asia Pacific Pte. Ltd.



Mitutoyo South Asia Pvt. Ltd.

- ◆ Sales
- R & D
- ▲ Production



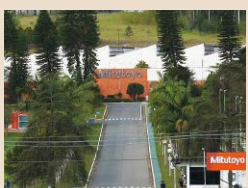
As of May 2023



Shiba Plant



Kochi Plant



Mitutoyo Sul Americana Ltda.



Mitutoyo Measuring Instruments (Shanghai) Co., Ltd.

Problem Resolution
Demos and Consultation

M³ Solution Center



The M³ Solution Centers are spaces we have established around the world to give demonstrations and propose Mitutoyo solutions. In addition to product exhibitions, demonstrations and practical instruction by engineering specialists, we also provide consultation on system investment. Whether you are measuring or making, you will surely find problem solving tips here.

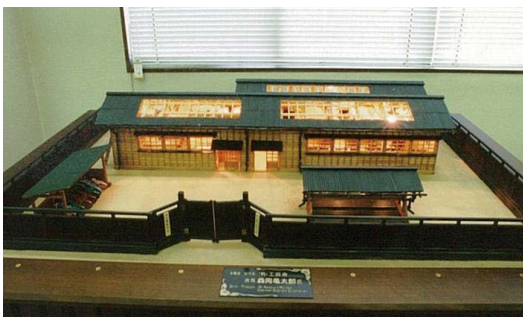
An inheritance of aspirations that crosses centuries.

Beginning as a small research laboratory in 1934, Mitutoyo grew by leaps and bounds to become the highly recognized global company it is today. Born of founder Yehan Numata's dedication and passion to "contribute to world peace and the wellbeing of people through business," his original aspirations have been passed down, remaining unchanged throughout changing times.

1934- On the Way to Becoming Mitutoyo Manufacture

Domestic production of the micrometer

The history of Mitutoyo goes back to 1934, when its founder, Yehan Numata, began development in Kamata, Tokyo for domestic production of micrometers, which were all imported at the time. In 1936, the company name "Mitutoyo Manufacture" was adopted. The results of the development bore fruit, successfully producing the first commercial-grade lot of 100 units. Of the 100 commercial-grade units, 83 were buried within the factory premises by the employees, leaving only 17 flawless units. This showed the company's resolution to never compromise on quality and performance by relaxing the inspection criteria, thus strengthening the employees' sense of responsibility.



A model of Kamata Factory at its founding. (Numata Commemorative Hall)



Mizonokuchi Factory in 1940 at the start of operations and the current location of Mitutoyo Headquarters.

1954- Going Global

From exports to the establishment of subsidiaries overseas

Mitutoyo was already looking overseas since the first day of production. Yehan Numata represented Japan at the 1st International Metrology Conference and Exhibition held in the United States in 1954. It was a remarkable opportunity to experience first-hand the worldwide progress and name recognition of Mitutoyo's precision measurement instruments. The conference subsequently bore an increase of exports, and in 1963 the first overseas base for Mitutoyo was established in the United States, soon followed by the formation of a distribution subsidiary in Germany in 1968. Since then, we have expanded our network to countries around the globe, including in South America, Europe and Asia.



Foreign news coverage of Mitutoyo founder, Yehan Numata in 1954



U.S. market operations begin in 1963



1987-

A New Generation of Mitutoyo

Leading the world in digitalization

From the second half of the 1970s, the evolution of measuring instruments across the world was in digitalization. The questions were how digitalization could keep pushing down size and cost. Manufacturing was in a fiercely competitive technological race, and in 1978 the Digimatic Series launched to become the hit product, dominating domestic and international markets. Mitutoyo's efforts since then have continually improved our lineup to lead the industry in digitization. In 1987, more than 50 years after its founding, the company was renamed to Mitutoyo Corporation as it took a new step to meet the 21st century.



Launched world's first CNC surface roughness tester and contour measuring instrument series (2003)



Production begins for the MDH-25M, the world's first micrometer displaying down to 0.1 μm (2011)

2020-

A New Horizon

A solutions company supporting manufacturing sites

Approaching the 90 years since its establishment, Mitutoyo now faces a transition period of evolution and innovation. The advent of IoT and other state-of-the-art capabilities, along with the continuing advancement of manufacturing is, and will continue to be, an ongoing transformation of how measurements are used. Mitutoyo understands that we cannot just respond to change, but must be on the side that changes the world. To foresee those needs which have not yet taken shape and provide solutions as yet unimagined is how we will meet the future. Going beyond our role as a measuring instrument manufacturer, we will be a partner who continually provides new ideas and supports your operations at the ground level.



Vision sensing and processing measurement unit



In-line measurement

Contribution to Sustainable Society

Commitment

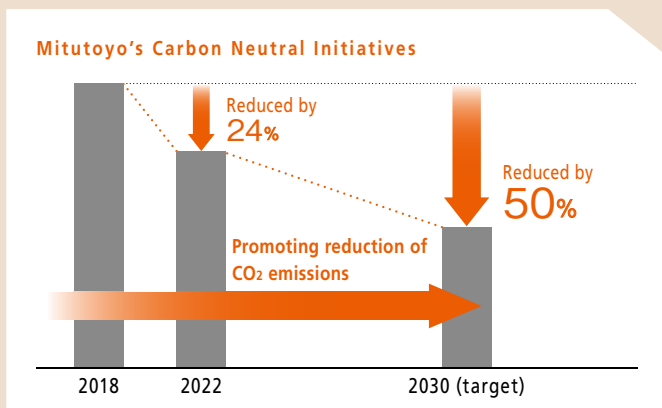
To fulfil our corporate responsibility for global climate issue, we Mitutoyo is contributing to carbon neutral society with our Carbon Neutral Initiatives by 2050.

We set a target of 50% reduction of CO₂ emissions from business activities (Scope 1 and 2) by 2030, compared to the amount in 2018.

We endorsed TCFD* recommendations in September 2022.



*Task Force on Climate-related Financial Disclosures



Sustainability at manufacturing site 1 Renewable energy

We adopt 100% CO₂-free hydroelectric power generation in Utsunomiya Plant (Small Tool Plant, MC Plant, and Kiyohara Plant) and Kochi Plant.



Sustainability at manufacturing site 2 Energy-saving and highly production-efficient equipment

We introduced solar power generation systems for in-house consumption at domestic and global manufacturing sites. Also, hot water boilers are installed at MC Plant in Utsunomiya Manufacturing sites to reduce fuel oil usage and improve energy efficiency.



More detailed information about our Carbon Neutral Initiatives on our corporate website.
Carbon Neutral Initiatives

Under One Philosophy

In addition to activities as a precision measuring instrument manufacturer, our corporate activities include various social activities.

The lineage and transitions of measuring instruments Mitutoyo Museum of Measurement

A specialty museum displaying the evolutionary history of precision measurement instruments. The collection is accredited by the Ministry of Economy, Trade and Industry as industrial modernization heritage. In addition to Mitutoyo's own history, the display includes a collection of historical pieces and measuring instruments from around the world.



For the peace and happiness of humanity Society for the Promotion of Buddhism

Established in 1965 at the behest of Mitutoyo founder, Yehan Numata. The foundation edits, publishes and disseminates the book, "The Teaching of Buddha" and works to communicate the Eastern wisdom of Buddhism to people throughout the world.



Contributions to the community Supporting sports experiences for local children through sponsorship of Kawasaki Brave Thunders

Mitutoyo entered a global top partnership agreement with Kawasaki Brave Thunders, a professional basketball team based in Kawasaki City, and supports sport activities for children in the local community.

Aiding R&D efforts and promoting international cooperation Mitutoyo Association for Science and Technology (MAST)

MAST was established to support excellence in research and development and to promote international research cooperation as part of Japan's contribution to the development of world peace, security and industrial economy through science and technology. Mitutoyo supports MAST's ongoing activities.



Contributing to society through food Mitutoyo Foods

Mitutoyo Foods Corporation was established in 1986 by Mitutoyo founder Yehan Numata. Mitutoyo Foods inherits Yehan Numata's will to convey the Buddhist spirit from the aspect of food and embodies the idea of respect for all living things and avoidance of killing and violence in the food industry. Through the manufacture of yuba (bean curd skin) we hope to realize this philosophical tenant.



©KBT, photo taken on 29 July, 2021

"Develop people before making products" This is our past and our future.

Good Environment, Good People, Good Technique

People development is essential to create a trusted product, and good people develop in a good work environment. Our company motto is rooted in our founder's words. For us, company means a place of symbiosis where people gather to connect with and enhance one another in pursuit of happiness together.

More than 5,000 employees work together at Mitutoyo in Japan and around the world. People are our wellspring of possibility from which our future will grow, and we are dedicated to putting these words into practice at our places of work throughout the world. We will not forget the spirit of this founding idea and will continue to challenge ourselves to pursue a society that lives and breathes the spirit of adventure.



Consistent career formation from Day 1 at the company Mitutoyo's system to encourage endeavour

Our personnel evaluation system supports each employee's activities aimed at fulfilling his or her endeavour "to do" and "to succeed". Based on management through dialogue, the company's expectations and each employee's objectives are clearly shared. We encourage new challenges based on individual initiatives no matter how small, and assess proactive failures positively.



Fostering a culture without barriers Cross Communication

Employees at Mitutoyo come from all walks of life, so we keep an environment where free and fluid communication across teams and departments occur naturally. In addition to our meeting style where everyone has equal footing, we also encourage non-work related clubs and other activities to revitalize the workplace.





Approaches for healthy and lively working Health management

With an emphasis on our employees' mental and physical health, Mitutoyo provides the Mitutoyo Health Management Declaration. Mitutoyo has obtained various certifications and carries out various health-oriented activities, such as health guidance, health counseling, workplace improvement activities based on the results of stress check group analysis, cancer prevention lectures, and food education through lunch seminars.



System to convey artisans' spirit and skills TAKUMI master system

With the "core technologies" the company has accumulated over the years in the precision measuring field as our proprietary assets, we promote nurturing and technology transfer to the next generation of engineers. The "TAKUMI master system" is an effort over time and through day-to-day work to transfer to the next generation of Mitutoyo personnel the skills and experience of master engineers decorated with the Medal with Yellow Ribbon, for example.



Our Management Principles The company's mission and basic management objectives

To contribute to the wellbeing of society through precision measurement technologies

We shall conduct our business based on the following values to:

- Provide solution engineering to support our client business development
- Contribute globally to the advancement of industrial measurement capability
- Cultivate healthy relationships and common prosperity with trading partners
- Support and promote global peace, human happiness and harmony with the environment
- Apply business practices that reflect the integrity of Mitutoyo and our world-leading brand
- Nurture a vibrant corporate culture that inspires a passion in our personnel to do their best, to be the best

Our Corporate Motto and Our Guiding Precepts

The company's basic policy of management

A guide for implementing "Our Management Principles"

【 Our Corporate Motto 】

"Good environment, Good people, Good technique"

【 Our Guiding Precepts 】

"Sincerity, Thoughtfulness, Determined Spirit"

6 Guidelines of Management Principles and Corresponding SDGs

Six objectives

Major Mitutoyo initiatives



3. Good health and well-being

- Promoting health operation
- Supporting sports experiences for local children through sponsorship of Kawasaki Brave Thunders



8. Decent work and economic growth

- Proactively creating jobs as the Company grows
- Creating an environment where all people can work vigorously



9. Industry, innovation and infrastructure

- Advancing the application of the IoT and AI technology
- Contributing to manufacturing around the world through precision measuring instruments produced with advanced technology
- Supporting Mitutoyo Association for Science and Technology (supporting the development of technology that supports the next generation)
- Supporting the development of engineers through the global expansion of Mitutoyo Institute of Metrology
- Supporting World Skills Competition (supporting the development of engineers of the next generation)



12. Responsible consumption and production

- Assuring quality through a standard on the national level
- Supporting quality improvement in customers' production sites



13. Climate action

- Efforts at energy conservation and waste reduction
- Development of environmentally conscious products



16. Peace, justice and strong institutions

- Mitutoyo Export Control Program, an initiative in security export control
- Supporting Bukkyo Dendo Kyokai (world-wide distribution of Buddhist scriptures and others)

6 guidelines in Mitutoyo's Management Principles

Mitutoyo



Expect a New Mitutoyo Beyond Measurement

Since our founding in 1934, Mitutoyo has always met the measurement head-on. Trust is everything in precision measurement. As a result of pursuing quality in our products for many years, Mitutoyo is now the favourite supplier at work sites around the world. We are happy to report that when a problem concerning measurement arises, Mitutoyo comes to mind. However, rather than rest on our laurels, we will further change the way we are and the way things are by taking the initiative to detect signs of change in the environment, market, and customers, so that we can do even more than what is expected of us today. When you come to us with a problem, we want you to be surprised and inspired by the extent to which we can be of help. Our new watchword is "Connect". We connect technologies and services to help customers by enabling uninterrupted plant operation. Each and every employee of Mitutoyo connects ideas and sentiments across the company's departments and different countries for the sake of our customers. Marking 90 years since the company's foundation and heading toward 100 years of business with an unwavering vision, we will continue to support your future by providing advanced precision measurement solutions.

President

Yoshiaki Numata

Company Profile

*as of December 2022

Mitutoyo Corporation

Headquarters	20-1, Sakado 1-Chome, Takatsu-ku, Kawasaki-shi, Kanagawa 213-8533, Japan
Established	22-Oct-1934
Capital	391 million yen
Equity capital	Non-consolidated: 159,754 million yen (equity capital ratio: 81.9%) Consolidated: 221,528 million yen (equity capital ratio: 79.2%)
Non-consolidated sales amount	84,476 million yen
Consolidated sales amount	134,445 million yen (total of 44 companies: 5 companies in Japan, 19 companies in Europe, 13 companies in Asia, 7 companies in North America and Latin America)
Number of employees	Non-consolidated: 2,971 / Consolidated: 5,374
President	Yoshiaki Numata
Business fields	Manufacture and sales of precision measuring instruments

ISO14001 Certified
Certified Health & Productivity Management Outstanding Organization



Mitutoyo company website
<https://www.mitutoyo.co.jp>

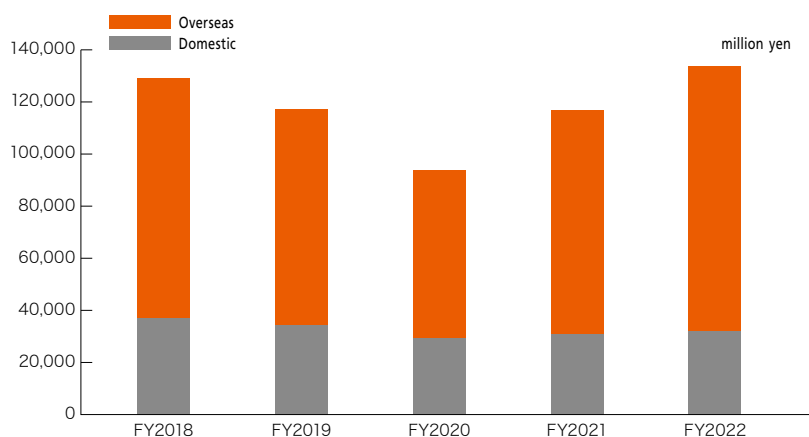


360° virtual tour
Mitutoyo Museum of Metrology

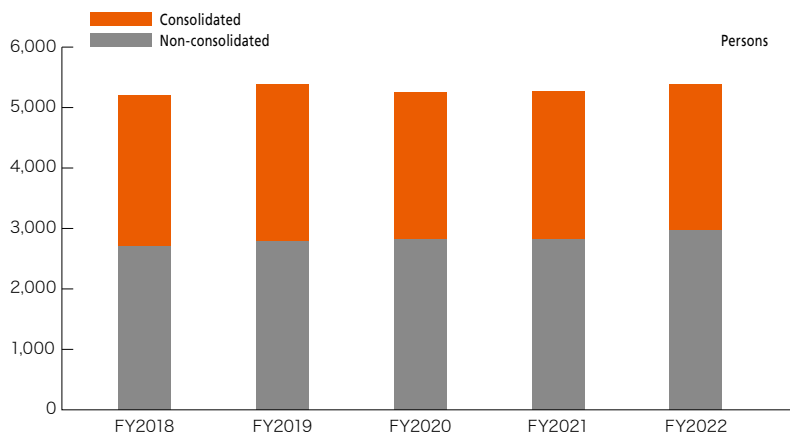


Contribute to society through
precision measurement
Mitutoyo concept video

Consolidated sales amount



Number of Employees (Non-consolidated / Consolidated)





Mitutoyo

Mitutoyo Corporation

www.mitutoyo.co.jp

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