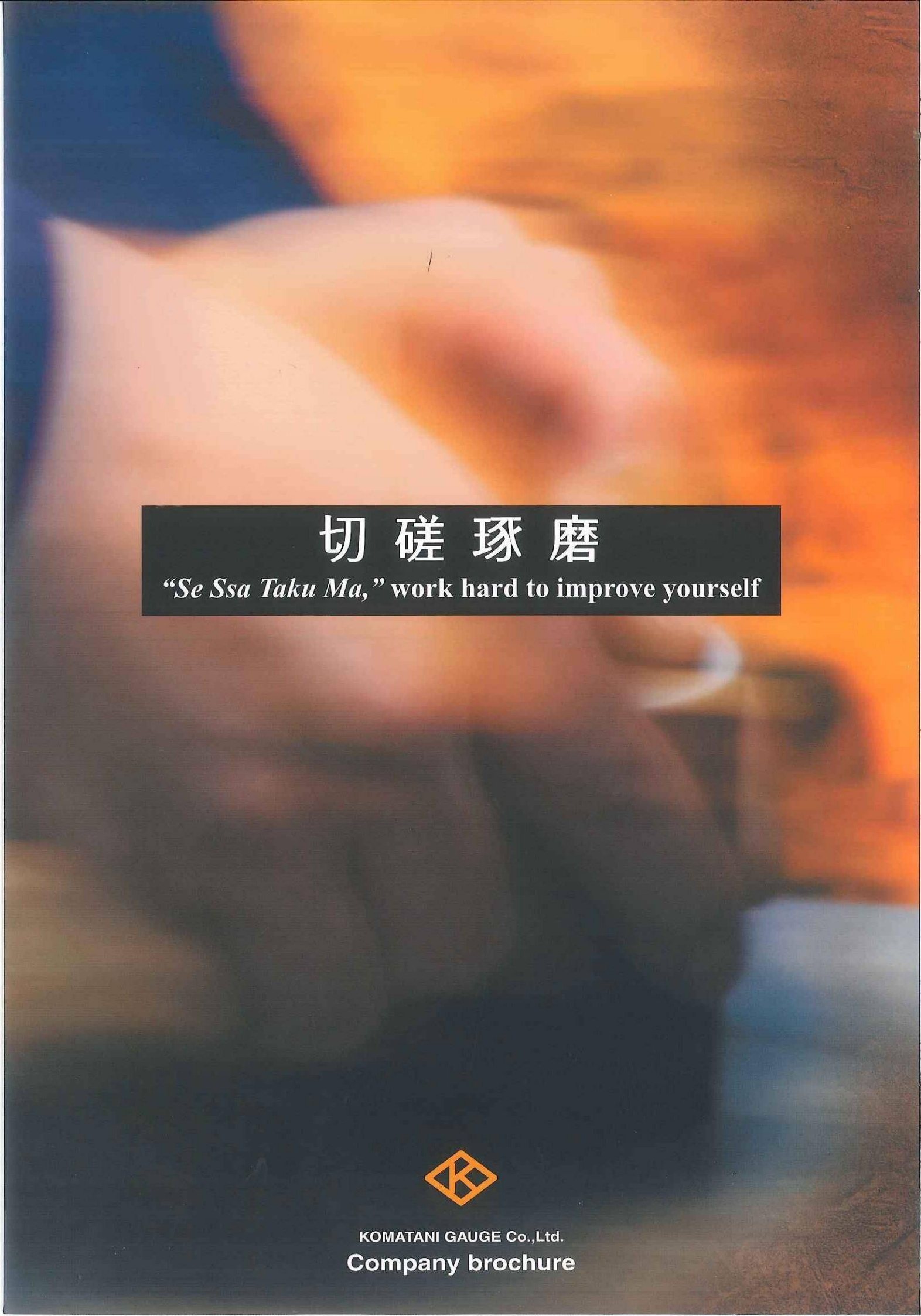


切磋琢磨

***"Se Ssa Taku Ma,"* work hard to improve yourself**

KOMATANI GAUGE Co.,Ltd.

Company brochure

What supports Japanese industrial products boasting the world's finest quality?

Gauges provide the standards by which to measure the sizes and shapes of products in every conceivable kind and category.
Accordingly, gauge production requires extreme accuracy and the highest possible quality.
However, the highest level of accuracy requires more than just high-performance machines.
You may be surprised to know, but the five senses are fully employed in gauge production at the end of the procedure.

Reaching the highest accuracy is the same as utilizing the maximum capabilities of a human being

Let's take as an example a famous technique in the machining field called three-plate rubbing*.
Although this is a traditional analog technique, it is still adopted at field sites as the only method to ensure the high accuracy of flat surfaces.
The "human hands" may often be said to have greater performance as a sensor than any supercomputer can provide.
It might not be an exaggeration to say so, if you think that all high-performance machines are essentially created by human hands.

Needless to say, the sensitivity to recognize differences on the order of microns is a special one possessed by a talented few.
Such ability can be obtained only by repeating the training for long periods.
The accumulated efforts and years cannot be bought with money.
We appreciate human ambition more than anything, because we work on gauge production—a field in which accuracy is respected.
There is no gauge production without "*Se Ssa Taku Ma*."

Manufacturing leads to the cultivation of humanity, and further to the establishment of confidence

We strongly believe that the diligent attitude needed to manufacture products leads to the creation of good products.
The accomplishments of that effort hone human beings, ultimately leading to the creation of public confidence.
It sounds like a good story, but the results verify that Komatani Gauge products have been used in various industrial products throughout the world for more than half a century.

A piece of metal being accurate to the standard down to a tolerance of 0.0001 mm
This can be achieved not only by high-performance machines employing the world's highest technology, but also through the great sensibility and effort that experts devote to product creation and the sincerity we have with respect to our customers.
Please remember the above story when you take up a Komatani gauge.

* Three-plate rubbing: The operation used to ensure the accuracy of flat surfaces by rubbing three plates against each other using the procedure of all possible selections.

Adhering to the concept of a customer-first policy —"High Quality, Quick Delivery, Low Cost"—and to the creation of products

The idea, "manufacturing most requires a diligent attitude," also connects to the conscious desire to respect customers who place orders with us.

Komatani Gauge seeks not only to produce good products but to always meet customer needs. Accordingly, we have the motto, **"High Quality, Quick Delivery, Low Cost,"** and in achieving it we use various approaches.

High Quality

■ An outstanding work environment provided by an excellent management system

The introduction of many machines, including grinding machines and jig borers, fully achieves an ample manufacturing environment. We have also organized a high-grade quality control system by installing a variety of measuring machines, each evaluated as having the world's most accurate. These include the Carl Zeiss three-coordinate measuring machine and our temperature-controlled inspection room.

■ Technical proficiency and the structure for inspection

We have many experts with high techniques accumulated over years and study and effort. In order to further enhance the accuracy of high-technology precision equipment, each expert works carefully on products through manual operation, and double-checks them. Additionally, we regard the succession of technology as an important subject, and we devote our energies to nurturing young craftsmen.

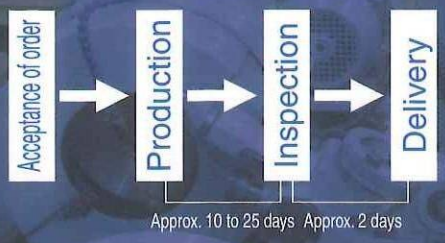
■ International standardization ISO9001 certificate acquired

The company strives to ensure consistent traceability within the company, from the acceptance of an order to production, and from inspection through delivery. Our activities, all of which are intended to deliver products that satisfy our customers, have been thoroughly evaluated, resulting in the acquisition of the ISO9001 certificate in April 2002.

Quick Delivery

■ Consistent in-house operation ensures the shortest possible procedures

* Please consider the number of days as a general reference. These figures are subject to change, depending on the details of each order.



Basically, all the procedures—from acceptance of order through delivery—consist of internal operations. That is why we can provide consultation on a delivery schedule that might otherwise seem difficult.

We also have reliable support via outsourcing companies that accept such strict requests as "purchasing material on the day and heat treatment on the following day." This is one of the reasons to ensure our confidence. All the members of the company address our customers' needs through their finest, most diligent efforts.

Low Cost

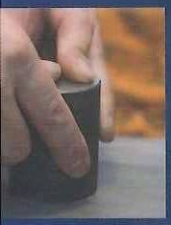
■ Compression of indirect expenses

The company's main business is manufacturing. For that reason the back-office and sales divisions are operated by fewer members than those who engage in manufacturing. By limiting labor costs and suppressing indirect expenses as much as possible in order to achieve low-cost production, our customers can receive superior-quality products at reasonable prices.

Office scene

Jig borer

Factory scene



ing procedure

Temperature-controlled room

Inspection using the three-coordinate measuring machine

切 Se
磋 Ssa
琢 Taku
磨 Ma

« Quoted from the Weifeng Qiao of "Shijing (Classic of Poetry)."
"Takuma" means to strike and polish jade or stones. »
Continuing our efforts to learn and cultivate virtue.
Or, encouraging and competing with friends to improve together.
(Quoted from the Daijisen, a general-purpose Japanese dictionary)

切 ... "*Se*": Bone Processing

磋 ... "*Ssa*": Ivory Processing

琢 ... "*Taku*": Jade Processing

磨 ..."*Ma*": Stone Processing

Each *kanji* character of "*Se Ssa Taku Ma*" has an original meaning, as shown above. Since it is necessary to attend to work faithfully with enormous labor in order to complete high-quality industrial products, the meaning of "*Se Ssa Taku Ma*" in the company is given the additional meaning that we should take sufficient time to thoroughly hone our skills and abilities while encouraging our colleagues and friends to do the same.

There are "polishing materials to improve accuracy," as in the original meaning, and in the contemporary sense there is "a human honing oneself."
We can deeply understand both meanings and appreciate their importance, because we have for years strived to engage in manufacturing and have earnestly dedicated our pursuits to the production of quality gauges.

Corporate Profile and History

▪ **Corporate name:**	Komatani Gauge Co., Ltd.
▪ **Start of operation:**	1956
▪ **Establishment:**	May 1, 1988
▪ **Capital:**	10,000,000 yen
▪ **President:**	CEO Hisao Komatani
▪ **Business line:**	Various types of limit gauges, precision measurement jigs, carbide gauges/jigs and precision parts
▪ **Head office:**	1-6-34 Nishi-Tsutsumi-Hondori-Nishi, Higashi-Osaka City, Osaka Pref. 577-0046, Japan tel: 81-6-6781-0975 fax: 81-6-6781-0974
▪ **No. of employees:**	32
▪ **Annual business:**	383.42 million yen (Result for the term ending in April 2008)
▪ **Accounting term:**	Once a year (end of April)
▪ **Line banks:**	Kosaka branch, Mitsui-Sumitomo Bank; Higashi-Osaka branch, Kinki Osaka Bank; Eiwa branch, Osaka Shinkin Bank; Higashi-Osaka branch, Taisho Bank; and Higashi-Osaka branch, Ikeda Bank

May 1956	Former President Yoshio Komatani started his business as Komatani Gauge under private management. Started manufacturing and sales of various types of limit gauges
1966	Moved the head office and factory to the address of 1-2-21 Takaida-Motomachi, Higashi-Osaka City, Osaka Pref., Japan.
May 1979	Newly established Komatani Gauge Factory Ltd. as a corporate entity.
May 1988	Present CEO Hisao Komatachi inherited the business from President Yoshio Komatani.
July 1991	Built the second factory at Takaida-motomachi, Higashi-Osaka City, Japan.
November 1999	Newly built a head office and factory at 1-6-34 Nishi-Tsutsumi-Hondori-Nishi, Higashi-Osaka City, Osaka Pref., Japan, and moved the former registered address to it.
April 2002	Acquired certification under ISO9001:2000.
April 2004	Changed the corporate name to Komatani Gauge Co., Ltd.
February 2006	Extended the building of the head office.

Major suppliers/customers

List of major suppliers

Sakaguchi Kozai K.K.
Tahara Seiko
MATSUNAGA STONE CO., LTD.
Iwatani Gas Network Corporation

List of major customers

EXEDY Co., Ltd.
FUJI CO., LTD.
NASTEC Co. Ltd.
NANYA MFG. CO., LTD.
SUGIMOTO & CO., LTD.
Yanagisawa Co., Ltd.
Hara Shoko K.K.
K.K. Fujimoto Kiko
YAMAZEN CORPORATION
K.K. Geiyo
SOKUHANSHA CO., LTD.
NIKKEN CO., LTD.
Shinwa-shokai Co., Ltd.
FUSERASHI CO., LTD.
KYUSHU FUSERASHI CO., LTD.
NISHINO MACHINE INDUSTRIES, LTD.
Izurashi Company, Ltd.
K.K. Yamaichi
Sankyo-Seiki Co., Ltd.
SUGITA CORPORATION
Kawa Tec Co., Ltd.
Libertec Co., Ltd.
Kawachu Co., Ltd.

Including indirect sales, we have manufactured gauges and measurement jigs for nearly all the domestic automobile manufacturers.

Business line

Ring gauge

This is used to measure the external diameter and circularity.

Plug gauge

This is used to measure the hole diameter. The acceptance or rejection of a product is determined according to the crossing of the gauge of GO or NOT GO. Double-ended and single-ended types, as well as gauges for inspection and machine work, are provided.

Plug gauge with carbide end(s)

The same usage as plug gauge is applicable to this type of gauge. It is particularly useful when abrasion due to mass inspection is a concern.

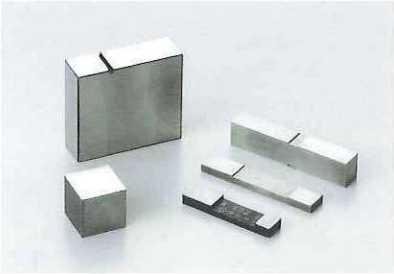
Snap gauge

This is used to measure the external diameters of machined goods.

Measurement jig

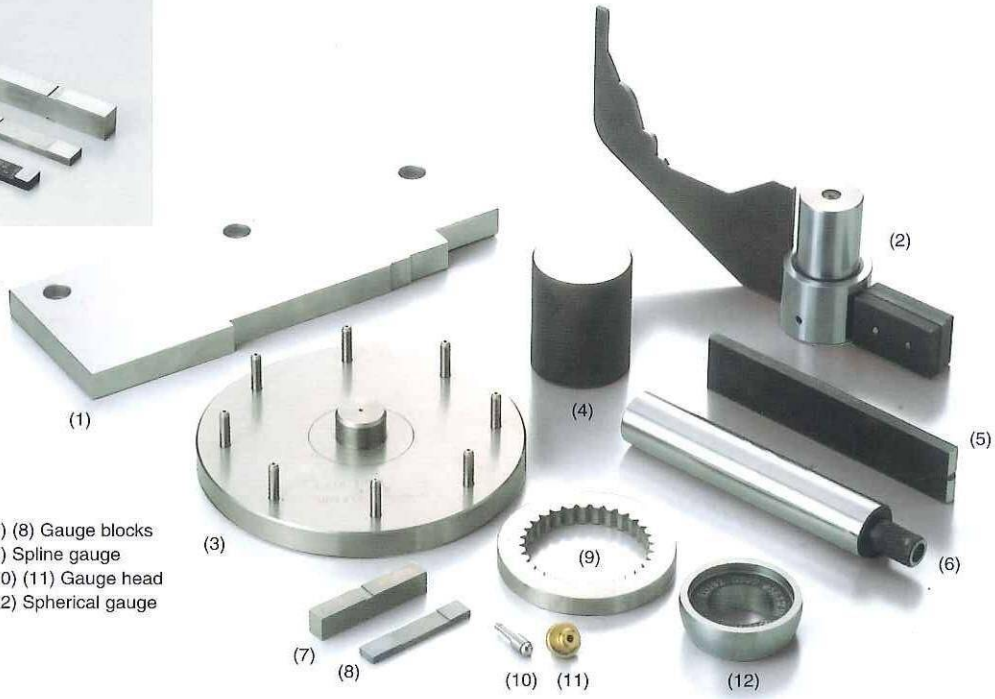
Various types of taper gauges

These are used to measure tapered parts (opposing surfaces on which portions are symmetrically slanted or cone-shaped).



Gauge blocks

This kind of gauge is said to be prototype standard for measuring devices that determine the lengths of parallel planes. The combination of gauge blocks makes it possible to create various objects of different dimensions.



Other special gauges

(1) Template
(2) Interference gauge
(3) Pitch gauge
(4) Height gauge
(5) Width gauge
(6) Test bar arbo
(7) (8) Gauge blocks
(9) Spline gauge
(10) (11) Gauge head
(12) Spherical gauge

We are ready to meet your other gauge needs as well, including master gauges for the measurement of inner and outer dies, trial products and precision parts. Additionally, we can provide consultation on other gauging aspects in design and manufacturing.

Please feel free to contact us with any questions, or to place an order.

List of major mechanical equipment

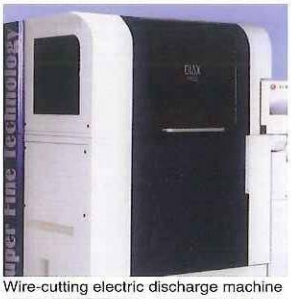
Name of equipment	Maker	Product Name (Product No.)
Jig grinding machine	Moore	G-18
CNC jig borer	Yasuda	YBM-950
Jig borer	Mitsui	J-5A
NC Milling machine	Makino	BN2-85
	Shizuoka	ST-NR
	Osaka	Raku Raku Mill
Vertical NC milling machine	Shizuoka	ST-NR
Milling machine	Shizuoka	VHR-G (2 pcs.)
Wire-cutting electric discharge machine	Mitsubishi	PA20
		FX20
		FX10DX
Electric discharge machine	Mitsubishi	M20-G15
NC Profile grinding machine	Washino	GLS-135B
		GLS-5T
Mold grinding machine	Nagashima	NP520
Surface grinding machine	Okamoto	PSG-64DX
		PSG-63AN
		PSG-52DX
	Nagashima	NP630-F
Universal grinding machine	Toyoda	GUP10-30

Name of equipment	Maker	Product Name (Product No.)
Universal grinding machine	Tsugami	TCGD-150 (4 pcs.)
Internal grinding machine	Yamada	YIG-20 (2 pcs.)
Cylindrical grinding machine	Toyoda	GOS32X50
		GOP10-30 (2 pcs.)
	Kondo	HI-GROSS (2 pcs.)
CNC Lathe	Takizawa	TC100
NC Lathe	Dainichi	DL-65
	Takizawa	TC100
General purpose lathe	Okuma	LS
	Mori	MS-850 (2 pcs.)
	Yamazaki	MS-850 (2 pcs.)
	Takizawa	TSL-550D
Precision single-side lapping machine	Okamoto	SPLIST
CAD/CAM	Kurashiki	MY PACK
Automatic profile		FANUC PG
Center lapping machine	Koide	
Laser marking	Matsuo	MS6384B
	Miyaji	ML-7110B
Shot plaster		(2 pcs.)

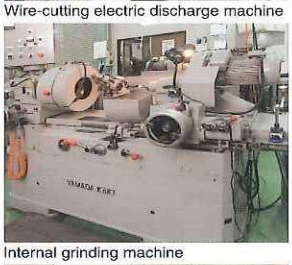
Others: Tool grinder, Contour machine, etc.

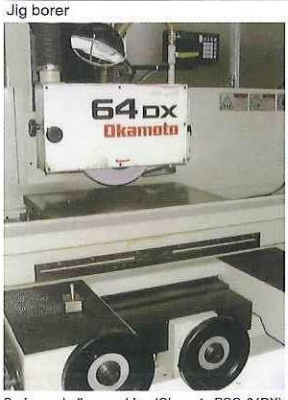
Jig borer

CNC jig borer


Wire-cutting electric discharge machine

NC Profile grinding machine


Internal grinding machine



Surface grinding machine (Okamoto PSG-64DX)

Mold grinding machine

Jig grinding machine

Cylindrical grinding machine (Toyoda GOS32X50)

Universal grinding machine (Toyoda GUP10-30)

Inspection equipment / factory equipment

Name of equipment	Maker	Product Name (Product No.)
Three coordinate measuring machine	Carl-Zeiss	UPMC850-CARAT-ULTRA
	Mitsutoyo	FalcioApex707
Universal measuring equipment	SIP	UMM-MU-214B
Measuring instrument	Carl-Zeiss	ULM01-600D
Contracer	Mitsutoyo	CV-4000S4
Roundness measuring machine	Mitsutoyo	RA-424
Compact internal measuring instrument	ISSOKU	IDM-30
Universal precision profile projector	Mitsutoyo	PJ300
Comparator	Kuroda	SM-3 (6 pcs.)

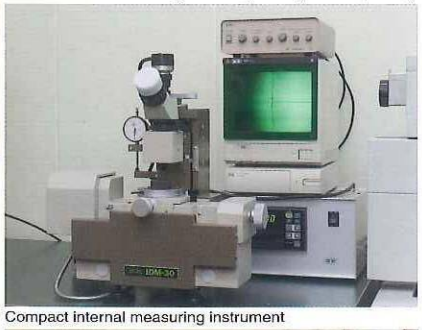
Name of equipment	Maker	Product Name (Product No.)
Linear height	Mitsutoyo	LH600D
		LHN-600
Electric micrometer	Anritsu	(3 pcs.)
Surface-roughness measuring instrument	Mitsutoyo	SV-402
Gauge blocks	Tsugami	B-2 (10 sets); B-4 (3 sets)
		B-7(2 sets), Longer type (3 sets)
Precision inspection machine platen	Johanson	
	Rahn	
Temperature-controlled room		

Others: Imikro (1 set), Rockwell hardness tester, and various types of indexing equipment and regulations

Three coordinate measuring machine (Carl-Zeiss UPMC850-CARAT-ULTRA)

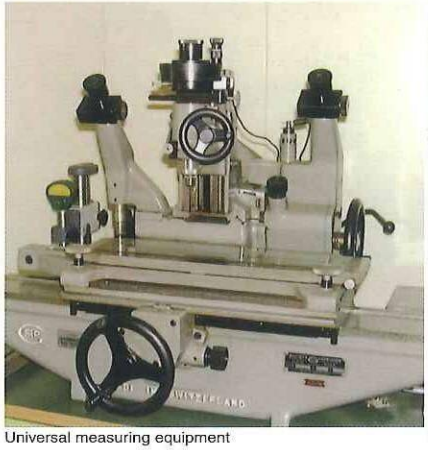
Roundness measuring machine

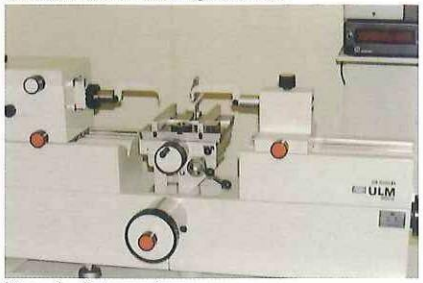
Three coordinate measuring machine (Mitsutoyo FalcioApex707)



Compact internal measuring instrument

Contrace


Universal measuring equipment



Measuring instrument

Fully air-conditioned factory:
- Temperature-controlled room...Temperature: 20°C±0.5°C; Humidity: 55%±5%
- Grinding factory...Temperature: 20°C±2°C
- Cutting factory...Temperature: 20°C±5°C