



URL:<http://www.oguraclutch.co.jp>

Ogura Clutch Co., Ltd.

Headquarters: 2-678, Aioi-cho, Kiryu, Gunma 376-0011 Japan
TEL 0277-54-7101 FAX 0277-54-7117



Soy ink is used for the global environmental protection.

COMPANY PROFILE

“Tradition”
and
“Innovation”



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Since
1938
OGURA

Transforming traditional values to innovation, and technical diversity to advancement,

Ogura@ClutchCompany Ltd. has created a new force in the industry.

Based upon experience from 1933 to the present,

we have been involved with incorporating clutches and brakes

into almost every field of industry and society. In the future,

we will continue to promote traditional company values as we strive for excellence
in our motion control products.

1938
OGURA

future

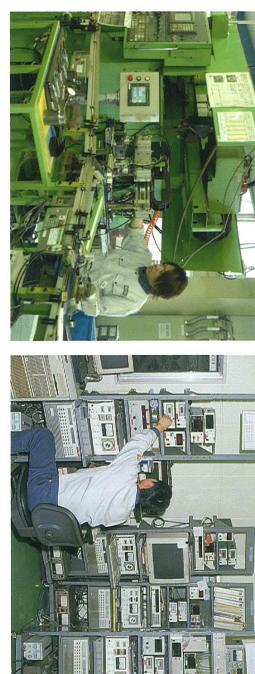
Research and Development

Manufacturing

Proposing Solutions for Customer Needs

Product development cannot start without understanding our customers' needs. Our development team works closely with our customers to develop an in-depth evaluation of not only their specific application objectives but their ultimate goals.

By working closely with our customers we are able to work as a team. We are able to use our increasing knowledge of manufacturing technology and materials to meet our customer design requirements. The basis of our company's strength is attributed to our ability to anticipate customer needs. Through our many years of experience we are able to both anticipate problems and make suggestions to help our customers succeed.



The Spirit of "Monozukuri" (Manufacturing)

With Ogura's diverse line of products we touch a wide variety of customers and markets from automotive applications such as air conditioning clutches and superchargers to industrial applications like copy machines and medical equipment.

To satisfy this global market, Ogura has opened facilities in Europe, North/South America and Asia. Over the years these products and these facilities have been developed on the basis of "Monozukuri", which is a philosophy of producing high quality components. By using innovative manufacturing technologies, which help our customers achieve cost effective products, resulting in high customer satisfaction.



A New World We Can Help Create Together

As a responsible member of the global society, Ogura Clutch is aware of its corporate responsibility. This is reflected in both the products and services we provide to our customers and our employees in all of our manufacturing facilities worldwide.



France

Ogura S.A.S.



The U.S.A.

Ogura Industrial Corporation
Ogura Corporation



Japan (Domestic Plant)

Head Office·Plant No. 1



Plant No. 3



Akabori Plant

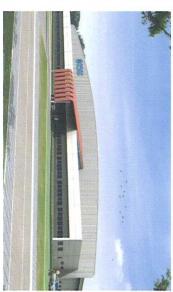


Kohbayashi Plant



Thailand

Ogura Clutch Thailand CO., LTD.



Malaysia

Ogura Clutch Malaysia SDN.BHD.



China

Ogura Clutch (Dong Guan) CO., LTD.
Ogura Clutch (WUXI) CO., LTD.



Brazil

Ogura Clutch do Brasil LTDA.



Ogura Technology

Ogura's parts and products are used in applications ranging from office automation equipment to automotive race cars throughout the world.

Office Automation



Automation



Tension Control



Automobile



Aircraft Components



Automotive



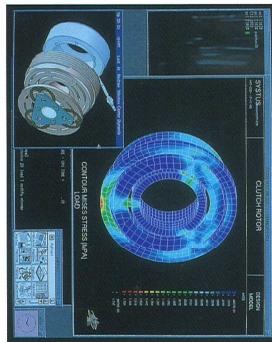
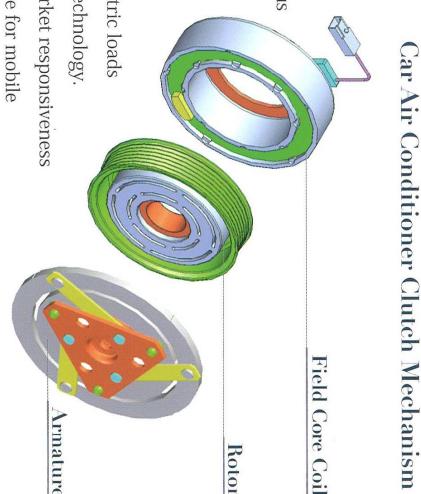
The World leading Automotive Air Conditioning Clutch

Because of the recent advancements in automotive engines speed and performance, today's air conditioning clutches must withstand higher speeds, heavier vibration and extreme temperatures.

They are also required to fulfill the response needs of the various types of compressors being manufactured worldwide.

To respond to these requirements Ogura has incorporated various unique design features into the clutches. A mechanism to reduce the shock to the compressor shaft, a resonance reducing device and a design that absorbs eccentric loads are all examples of Ogura's advancement in manufacturing technology.

These advancements combined with superior quality and market responsiveness has helped Ogura to earn one-third of the global market share for mobile air conditioning clutches.



Automotive air conditioning clutches are made up of three major sub assemblies. These are field, rotor and armature. From these basic components a wide variety of designs can be constructed to handle a wide variety of compressor and other automotive on/off applications.

Micro Clutches for Office Automation has Major Share of World Market

Ever since the development of the first electromagnetic micro clutch prototype for office automation (OA) equipment in Japan, Ogura Clutch, as a pioneer of micro clutches for OA equipment, has provided various types of special purpose clutches tailored to individual customer specifications. Bi-directional rotation, high speed designs, multi gear designs and reversing drives have all been developed from meeting the needs of the OA Equipment Market. Lower cost, environmentally friendly and energy savings have been made possible with continued advancements in manufacturing.

These products are used throughout the world in printers, copy machines and other peripheral equipment.

**The Use and Function of Electromagnetic Micro Clutches for OA Equipment**

Electromagnetic Micro clutches for OA equipment are used in different types of printers and copy machines. They start/stop the rollers and cams in a machine which feed/eject/transport/register papers and tilt toner.

Electromagnetic clutches operate via electric actuation. When the clutch is required to activate, voltage/current is applied to the clutch coil which produces magnetic lines of flux. The rotor portion of the clutch becomes magnetized and sets up a magnetic loop that attracts the armature. When the armature is pulled against the rotor, a strong frictional force transmits the torque mechanically. When current/voltage is removed from the clutch disengages.

**Sizes and Models of Electromagnetic Micro Clutches for OA Equipment**

Ogura's electromagnetic micro clutches vary from 22mm – 35mm outside diameter and 18mm – 36mm in length. We offer three types of models, MIC-EME, MIC-NEW and MIC-T. The MIC-T is an energy saving low cost clutch, the 3-ST is in current production and the 2-ST and the 5T are both under development.

MIC-T Series
Production area / China

MIC-NEW Series
Production area / China

03 Industrial Machine Parts

Clutches and Brakes are the Core Elements of many Industrial Machines.

Clutches and Brakes are used in almost every industry and are considered a core element of motion control.

Ogura Clutch has accumulated many years of experience in many different industrial applications.

Almost 3,000 designs exist allowing Ogura to quickly respond to the needs of our customers.



04 Ogura Racing Clutch and Ogura Supercharger

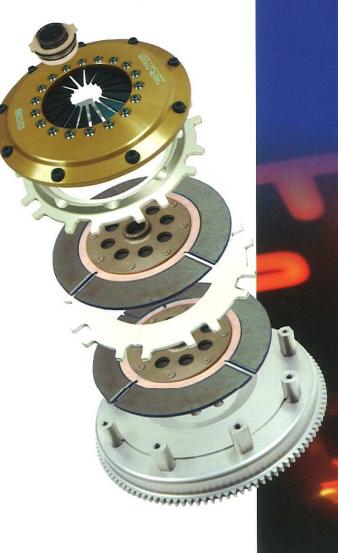
The Supreme Brand "ORC"

The Ogura racing clutches are a group of high power/high torque clutches for racing which exemplifies our technology.



Our Technology and Product Reliability help Support Racing.

Our racing clutches "RC Series" use a chromium molybdenum steel fly wheel which makes for an ultra-light fly wheel clutch with low inertia. They have been used in many cars for various competitions, including the winner of the All Japan GT Championship, the Super GT and Super Taikyu Race. Our knowledge and research of RC clutches have helped to continue improving the design, which has developed a highly reliable ORC clutch series.



Our Prominent Technology has spawned a Highly-Efficient Roots Blower Supercharger.

Ogura's supercharger is a roots type blower that works by pulling air effectively through rotating a pair of uniquely-designed rotors.

It has been used in many cars and marine engine applications and it has also been used in various air supply systems.

Recently we have been developing higher efficient blowers due to the needs of the fuel cell industry.



Features of Ogura Supercharger (Pump)
■ Unique rotor design, which spreads the air seal over a larger surface, giving high efficiency at both low and high speeds.
■ Special rotor coating reduces the chance for internal scoring against the casting and allows the supercharger to maintain high efficiency throughout its life.

A shuttle train is operated by forcing high air flow into the pads at the bottom of the train, lifting the train off the track so it can be easily pulled by a control cable, making for a ride that is very quiet and very smooth.

We offer various types of clutch and brake series that are tailored to individual functions. Quality and reliability is a trademark of Ogura and Ogura has been awarded with the privilege of being a certified supplier to many companies as well as being honored with many quality awards.

Supercharger used in Shuttle Train

A shuttle train is operated by forcing high air flow into the pads at the bottom of the train, lifting the train off the track so it can be easily pulled by a control cable, making for a ride that is very quiet and very smooth.

- Housing is made of finned aluminum which is lightweight.
- Low inertial rotors allow engagement and disengagement of the supercharger via a clutch which saves energy and increases the life of the supercharger.
- Due to a non-contact type of revolving part, it has less noise, less vibration and a long lifetime.

Modular Tension Control Systems

Ogura has many years of experience manufacturing magnetic particle and hysteresis clutches/brakes. From that experience we have developed a series of tension control units. These controllers utilize a constant current supply controlled by a micro processor.

The tension sensors with feedback controls have been developed with a highly accurate response. They are compact, lightweight and low cost. Systems can be installed easily with very few adjustments.

These tension control systems have been used all over the world for controlling tension in carbon fibers, glass fibers, very thin wire and textiles.



05 Tension Control System & Precision Manufacturing

Technology



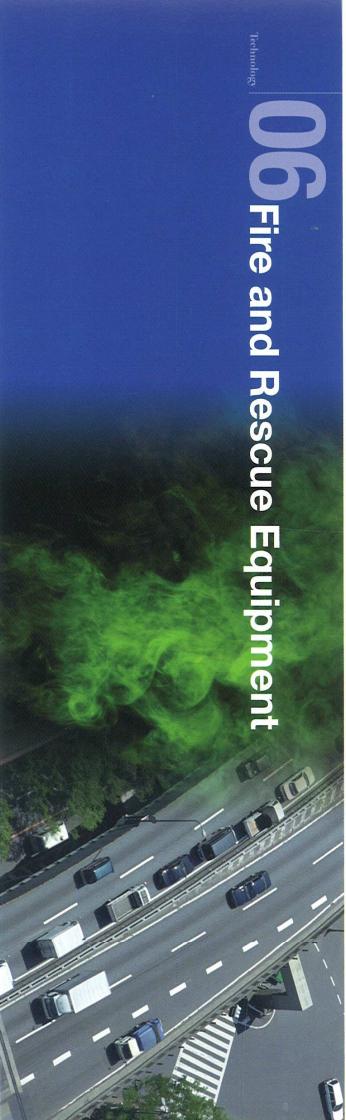
Precision Products for the Aircraft Industry

In 1997 Ogura started manufacturing clutches that start aircraft engines. In 2003 bypass valves for the heat exchanger of aircraft engines were added and later on hydraulic actuators for the undercarriage of regional jets were added too. Besides the manufacture of these parts, Ogura also has designed test equipment to test the component parts function to make sure it is within specs.



06 Fire and Rescue Equipment

Technology



OGURA System

Washing, Drying, Winding, Storing



Horizontally-Separated Full Body Harness acquired
Japan's First Conformity to a "Safety-Belt Standard"



Battery-charged
Hydraulic Cutter



Wash, Rinse, Dry, Wind, Store
Hose Winder Unit

Reducing Cost for Machine Tool Equipment and Improving the Work Environment

Technology

■ Jet Coolant Systems
Through a high pressure nozzle the jet coolant system sprays machining fluid (water or oil soluble) which is compressed by a pump. This pressurized machining fluid flushes the chips that adhere to products and tools, thus contributing to the reduction of minor production downtime caused by chips. Since this system eliminates the need for the manpower required for chip removal, it increases productivity by promoting automation and unattended operations in production lines.

The jet coolant system also extends tool life and reduces the cost, since tips of the blades are cooled more effectively when the fluid is sprayed.

■ Oil Mist Separator
Our oil mist separator boasts a remarkable efficiency of 99.9% while collecting oil mist through a combination of a unique centrifugal mechanism and a high performance filter. By providing cleaner air it plays an important role in creating a pollution-free workplace.



Jet Coolant Systems



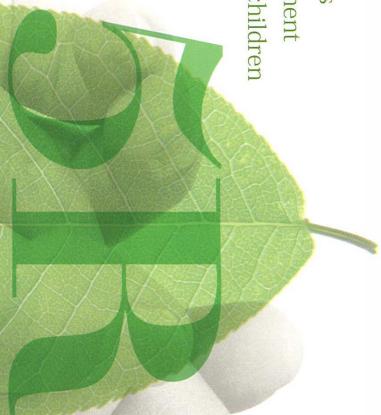
Oil Mist Separator





O G U R A
E C O
P R O J E C T

Our mission is ; to pass
this beautiful environment
of the earth on to the children
of future generations.



- Ogura Clutch will take up the following 8 items as the crucial issues, and strive to engage in our environmental improvement activities.

O G U R A E C O P R O J E C T

Environmental Activities

1. We will strive to be a company that positions the preservation of the global environment as a key management issue and is friendly to mankind and the environment.
2. We will strive to reduce an environmental impact being generated by our production, production and service activities, and carry out a Green Sustainable Supply Chain.
3. We will promote SIPS for elimination of waste, irregularity and unreasonableness in our activities, and make environmental improvement reflect directly to our management.

— 5Rs —

- Refuse** Refuse to purchase any products with an environmental burden.
- Reduce** Reduce the waste output.
- Reuse** Reuse the waste output.
- Reform** Reform the waste output.
- Recycle** Recycle the waste output.

Acquired Certification ISO14001:2004

The Head Office and Plant No. 1 received ISO14001 certification in 1998, and all the group companies received it in November, 1999.

Recognizing that the global environmental protection is the most crucial issue of our management, we will not only take an observance of the environment-related laws, regulations or agreements on air, water, noise, vibration and waste but continue to tackle further environmental improvement by setting up our target value. We will also promote green procurement/supply activity for our customers toward our goal of environmental conservation.



Certified by Our Customers

Certificate of Sony Green Partner

Acquired: August 4, 2003

Certification of GM5
(Chemical-substances Management System)
from Ritch Corporation

Acquired: January 13, 2003

Certification of Green Activity from Canon Corporation

Acquired: August 5, 2005

Environmental Partner Award from Fuji Xerox

Acquired: December 1, 2005

Furthermore, to reduce environmental impact in our products, we set up green procurement standards and endeavor to abolish use of harmful chemical substances.

1. **Management System**

By carrying out continuous improvement of environmental management system, we will set up the objectives and targets for reducing the environmental burdens, execute and materialize them.

2. **Compliance**

We will comply with all laws and regulations, other requirements concerning the environmental preservation and set up self-designed standards to improve the environmental preservation levels.

3. **Green Supply/Ecological Products**

We will set up green supply chain management system and promote efforts to offer more environmentally-friendly products.

4. **Less Natural Resources, Less Energy Consumption, Less Human Resources**

We will eliminate waste, irregularity and unreasonableness in all fields of business in order to raise efficiency of working, and make our environmentally-improving activities profitable.

5. **Zero Emission**

By carrying out 3Rs (Refuse, Reduce, Reform and Recycle) and through waste separation, we will achieve zero emissions.

6. **Preventive Measures of Environmental Pollution**

By carrying out 3Rs (Refuse, Reduce, Reform and Recycle) and through waste separation, we will achieve zero emissions.

7. **Voluntary Social Dedication**

Every employee will contribute to realize a recycling-based society through the awareness of each individual's role in protecting the environment.

8. **Open Information**

We will be open and communicate with our stakeholders on environmental issues.

Recycle

Recycle the waste output.

Reform

Reform the waste output.

Reuse

Reuse the waste output.

Reduce

Reduce the waste output.

OGURA

Outline



Yasuhiro Ogura
President
Ogura Clutch Co., Ltd.

Name	OGURA CLUTCH CO., LTD.
Founded	May 25, 1938
Established	May 25, 1948
Capital	¥1,858,806,000
Business	Manufacture and sale of various types of clutch brakes for general industry (for office machines, machine tools, construction machines, and industrial machines), fiber tensioners, superchargers, power clutches, oil mist separators, jet coolant systems, disaster prevention systems, etc.

Net Sales
Facilities
Head Office

Plant No.1
2-678, Atoi-cho, Kiryu, Gunma 376-0011 Japan

Plant No.2
2-417, Atoi-cho, Kiryu, Gunma 376-0011 Japan

Plant No.3
2-403, Atoi-cho, Kiryu, Gunma 376-0011 Japan

Akabori Plant
1539, Akaborikashima-cho, Isesaki, Gunma 379-2201 Japan

Kohbayashi Plant
2-1284, Kohbayashi-cho, Isesaki, Gunma 379-2201 Japan

Tokyo Office
Daiichi-Kyoei Building 10-12, Hamamatsu-cho 1-chome, Tokyo 105-0013 Japan

Osaka Office
2-10, Nagatahigashi 2-chome, Higashiosaka, Osaka 577-0012 Japan

Nagoya Office
Persimmon-Hills Sakurahiro, Nagoya, Aichi 457-0026 Japan

Hokuriku Office
Samro Building, Ishikawa-cho, Hiroshima 731-0032 Japan

Hiroshima Office

Overseas Offices

V

Ever since the foundation of our company we have manufactured our products with honesty and integrity. We have taken on the challenges of new products and new markets but at the same time cultivated our tradition of technology as we have done for over the past 70 years, always implementing our company's motto (Sincerity, Courage and Health). Starting from a small factory in Kiryu, we have successfully accomplished going from that single facility to what Ogura is today. We will continue to contribute to society by responding to both our customer needs and social needs without compromising the needs of our shareholders.

By opening the facilities in France, Brazil, Malaysia, China and Thailand, the Ogura Clutch Group is pursuing its challenge to manufacture and supply products to meet the specific regional needs and the global needs of its customers. It is important for us to remember that we have achieved this growth using our own technology but it's also important to embrace new technology because only by doing this will we be able to develop and manufacture products that are able to meet the needs of our global customers and put us ahead of our global competitors.

It is said, "In the history of a company the 70th year is the turning point."

From now on to experience the historical moments such as the 80th anniversary or the 100th anniversary of a company, we need to have both a healthy company and good communication between our customers and with each of the employees within the company.

We will continue to be a sincere, courageous and healthy company and by maintaining growth and product development we will also contribute to society and to our shareholders.



Name	OGURA CLUTCH CO., LTD.
Founded	May 25, 1938
Established	May 25, 1948
Capital	¥1,858,806,000
Business	Manufacture and sale of various types of clutch brakes for general industry (for office machines, machine tools, construction machines and industrial machines), fiber tensioners, superchargers, power clutches, oil mist separators, jet coolant systems, disaster prevention systems, etc.
Net Sales	¥49,520,000,000 (the settlement of consolidated accounts for the year ended on March 31, 2008)
Facilities	Head Office Plant No.1 2-678, Aioi-cho, Kiryu, Gumma 376-0011 Japan Plant No.2 2-417, Aioi-cho, Kiryu, Gumma 376-0011 Japan Plant No.3 2-403, Aioi-cho, Kiryu, Gumma 376-0011 Japan Akabori Plant 1539, Akaborikashima-cho, Isesaki Gumma 379-2202 Japan Kohbayashi Plant 2-1284, Koubayashi-cho, Isesaki, Gumma 379-2206 Japan Tokyo Office Daiichi-Kyoei Building 10-12, Hamamatsu-cho 1-chome, Minato-ku, Tokyo 105-0013 Japan Osaka Office 2-10, Nagatahigashi 2-chome, Higashiosaka, Osaka 577-0012 Japan Nagoya Office Persimmon-Hills Sakurahonmachi 1F, 22, Sakurahonmachi, Minami-ku, Nagoya, Aichi 457-0038 Japan Hokuriku Office Sanno Building 2F, 25-1, Shinkanda 5-chome, Kanazawa, Ishikawa 921-8013 Japan Hiroshima Office Hiroshima Office Center 7F, 3-35, Higashikojin-cho, Minami-ku, Hiroshima, Hiroshima 732-0805 Japan Kyushu Office 45-7, Yoshizuka 1-chome, Hakata-ku, Fukuoka 812-0041 Japan
Overseas	Ogura Industrial Corporation
Offices	100 Randolph Road, Somerset, NJ 08873, U.S.A.
	Ogura Corporation 55025 Gratiot Avenue, Chesterfield TWP., MI 48051-1249, U.S.A.
	Ogura S.A.S. Parc d'Activites de la Vallee de l'Escaut B.P.61-59264 ONNAING-FRANCE
	Ogura Clutch do Brasil LTDA. Rua Ettore Soliani, 568-Distrito Industrial Nova Era, Indaiatuba-SP-Brasil CEP 13.347-394
	Ogura Clatch Malaysia SDN.BHD. Lot2-7, Jalan SU/6A, Taman Perindustrian Subang Utama, Section 22, 40300 Shah Alam, Selangor Darul Ehsan, Malaysia
	Ogura Clutch (Dong Guan) CO.,LTD. Science Technology Industries Zone, Shi Jie, Dong Guan, Guang Dong, China
	Ogura Clutch (WUXI) CO.,LTD. A-38, No.1899 Jianghai Dong Road, Wuxi Hi-tech Industrial Development Zone, Wuxi, Jiangsu, China
Employees	1,051 as of March, 2008

May 1938	Established Ogura Seisakusho Co., Ltd. Hiroschi Ogura, the first President, established Ogura Seisakusho at Nishirokugo 3-23, Kamata-ku (presently Ota-ku), Tokyo to engage in the manufacture of aircraft-related products.	Jan. 1988 Established OGURA CORPORATION in Detroit, Michigan, U.S.A. (presently our consolidated subsidiary)
May 1939	Began to manufacture mechanical clutches.	Oct. 1988 Capital participation in Tokyo Seiko Co., Ltd. (presently our consolidated subsidiary)
Apr. 1944	Relocated the plant to Aioi-mura, Yamada-gun, Gunma. (presently Aioi-cho, Kiryu)	Dec. 1996 Founded OGURA S.A.S. in Nord, Valenciennes, France. (presently our consolidated subsidiary)
Oct. 1946	Began to manufacture bicycle generator light sets.	Jan. 1998 Founded and began operation of Ogura Industrial Corporation in Somerset New Jersey, U.S.A. (presently our consolidated subsidiary)
May 1948	Established Ogura Seimitsu-Kogyo Co., Ltd. to manufacture and sell precision parts for machine tools.	Aug. 1999 Issued approximate ¥3,000,000,000 yen-dominated convertible bond.
May 1952	Closed Ogura Seisakusho. Ceased the activity of Ogura Seimitsu-Kogyo. Asaka Kogeisha succeeded to the activity of Ogura Seimitsu-Kogyo.	Oct. 1999 Founded Ogura Clutch do Brasil LTDA in Sao Paulo, Brazil. (presently our consolidated subsidiary)
Feb. 1954	Incorporated Asaka Kogeisha and established Asaka Kogeい Co., Ltd.	Jun. 2000 Founded Huron Precision Parts Corporation in Madison Heights, Michigan, U.S.A.
Apr. 1957	Renamed Asaka Kogeい Co., Ltd. to Ogura Seisakusho Co., Ltd.	Apr. 2001 Capital participation in ARC International Inc. (presently our equity method non-applied subsidiary company)
Jul. 1960	Relocated the Head Office of Ogura Seisakusho Co., Ltd. to Chuo-ku, Tokyo	Nov. 2001 Founded Ogura Church Malaysia SDN BHD. in Shah Alam, Selangor Darul Ehsan, Malaysia. (presently our equity method non-applied subsidiary company)
May 1961	Renamed Ogura Seisakusho Co., Ltd. to Ogura Clutch Co., Ltd.	Feb. 2002 Capital participation in KOYO TECHNO CO.,LTD. With this act, Maruko Seisakusho Co., Ltd. became our affiliated company.(indirectly owned non-consolidated subsidiary)
Jan. 1962	Opened the Osaka Branch Office at Nishi-ku, Osaka City. (presently our Osaka Sales Office, Higashi-Osaka City)	May 2003 Founded Ogura Clutch (Dongguan) Co.,Ltd. in Dongguan City, Guang Dong Province, China. (presently our consolidated subsidiary)
Oct. 1962	Ogura Seimitsu Kogyo Co., Ltd. merged Ogura Clutch Co., Ltd. Ogura Clutch co., Co., Ltd. was the actual surviving company. Renamed Ogura Seimitsu Kogyo Co., Ltd. to Ogura Clutch Co., Ltd. Relocated the Head Office to Aioi-cho, Kiryu City.	Aug. 2003 The Akabori and Kohbayashi plants acquired ISO/TS16949 certification.
May 1963	Renamed the former Head Office to the Tokyo Sales Office. Listed on the over-the-counter registration stock market.	Jun. 2004 Founded Ogura Clutch (WUXI) Co., Ltd. in Wuxi City, Jiangsu Province, China. (presently our consolidated subsidiary)
May 1964	Began to manufacture and sell air-conditioning clutches.	Dec. 2004 Withdrawal of the over-the-counter registration from Japan Securities Dealers Association. Listing on the market of Nasdaq Securities Exchange.
Feb. 1965	Initiated the export to the USA of air-conditioning clutches.	Sep. 2006 Toyo Clutch Co., Ltd. became our wholly owned subsidiary.
Jan. 1966	Opened the Hiroshima Branch of Osaka Office in Hiroshima City, Hiroshima Pref. (presently our Hiroshima Sales Office; Minami-ku, Hiroshima City)	Jan. 2007 Renamed Koyo Techno Co., Ltd. our subsidiary company, to Ogura Techno Co., Ltd.
Jul. 1967	Completed and relocated the Head Office and Plant No.1 to the present address. Renamed the former Head Office to Plant No.2.	Jan. 2008 Merger of Ogura Corporation, our consolidated subsidiary, and Huron Precision Parts Corporation. Ogura Corporation was the actual surviving company.
Sep. 1969	Opened the Nagoya Branch Office at Naka-ku, Nagoya City. (presently our Nagoya Sales Office at Minami-ku, Nagoya)	May 2008 Celebrated the 70th anniversary of the company founding.
Oct. 1969	Completed Plant No.3 in Kiryu, Gunma.	Jul. 2008 Established Ogura Clutch (Thailand) Co., Ltd. in Amata City, Rayong Province, Thailand.
Nov. 1969	Opened the New York Branch Office.	
Nov. 1972	Established OGURA OF AMERICA INC in San Francisco, California. (previously our equity method applied subsidiary company)	
Feb. 1977	Opened the Kyushu Office at Hakata-ku, Fukuoka City. (presently our Kyushu Sales Office)	
Sep. 1974	Opened the Hokuriku Branch Office in Kanazawa, Ishikawa Pref. (presently our Hokuriku Sales Office)	
Sep. 1974	Completed the Akabori plant at Akabori Kashima-cho, Iseaki, Gunma Pref.	
Feb. 1980	Capital participation in Toyo Clutch Co., Ltd. (presently our consolidated subsidiary)	
May 1985	Capital participation in Shiano Kiko Co., Ltd. (presently our equity method non-applied subsidiary company)	
Aug. 1985	Completed the Kohbayashi Plant at Kohbayashi-cho, Iseaki Gunma Pref.	