We support the realization of a recyclable society with an eye on global environment through the comprehensive power of the "TERAL" group brand.

About the new Teral Group brand logo

Putting the 5 letters of "TERAL" in a row, and connecting them to each other, expresses the strong cohesiveness of the Teral Group and its dynamic growth as a new brand. The italicized text design emphasized in a lateral direction suggests the pursuit of the liveliness and the ideal corporate stance for each of the group companies which pursue without interrupting or impeding the graceful flow of water and air. The deep blue invokes the profound vision of the Teral Group which aims to realize a recycling society based on water and air, and realized through intelligence backed with abundant experience and reliable expertise.

What is TERAL?

The name "TERAL" was created by combining "TERRA", the Latin term for the Earth, with "RALLY" in the sense of "revival" or "recovery". The name incorporates our hope to restore the earth with water and air.

TERAL group

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<th>TERAL INC.</th>
<th>Pumps/Fans</th>
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<th>Teral Taku Inc.</th>
<th>Household Pump Series</th>
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We support the realization of a recyclable society with an eye on global environment through the comprehensive power of the "TERAL" group brand.

Expanding the great ring that links wind, water and humanity.

Throughout society there has been a new focus on the quality of daily living and an increase in activities aimed at protecting the global environment. Reducing the burden on the environment while maintaining a comfortable lifestyle to the greatest degree possible. The realization of such a sustainable recycling society is a common theme for all people today.

We the Teral Group, have made steady advances in a variety of fields and have focused on the environment as a group of specialists involved in working with air and water. From a variety of pumps and fans to large scale water processing and greenery introduction systems, every single part of our products is based on our reliable technologies and corporate philosophy of protecting comfortable environments through high efficiency, low resource and energy usage, reduction of waste and other measures. The Teral group is dedicated to working towards the realization of a graceful society which revolves around clean water and air while maintaining cohesiveness through further integration of group companies in this age of ever intensifying and complex customer needs.
Although we may not notice them, pumps support our everyday lives. Leading-edge technology and uncompromising product quality control provide answers to today’s changing needs.

Centrifugal pumps

High performance and reduced size and weight have been realized through the latest fluid design. Our stainless steel lineup has been improved to respond to a wide variety of needs.
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### Centrifugal/Stainless steel pumps

- **Motor pump**
  - SJMS Type
- **Multistage horizontal pump**
  - NX Type
- **Centrifugal pump**
  - SJS Type
- **High-lift multistage pump**
  - MKHS Type
- **High-lift stand type multistage pump**
  - SVM Type

### Cascade Pumps

- **Self-priming**
  - KSP Type
- **High pressure two-stage**
  - KH Type
- **Self-priming stainless steel**
  - KSPS Type

### Oil pumps

- **Self-priming cascade pump**
  - OKS Type
- **Gear pump**
  - GPL II / GPM II Type
- **Gear pump**
  - GV Type
Freshwater submersible pumps

Our submersible motor pumps for deep wells are known for their high functionality and reliability. Our flexible lineup provides answers to a range of needs, from heavy industrial use to household uses.
Water supply units

Designs that provide power while saving space and energy. Practical, durable, highly functional pumps provide reliable support for daily life.

Direct booster units

- Large bore 75 mm Cabinet, MC3 Type
- New cabinet, MC4 Type
- Installation type, NX-DFC Type

Surface water supply units

- Estimated termal pressure constant control water supply unit (inverter control), NX-VFC Type
- Constant-pressure water supply unit, NX-LAT Type
- Self-priming auto reel, LAT III Type

High head high flow water supply units

- SVMV Type

Submersible water supply units

- Estimated termal pressure constant control, SSTM-VFC Type

Pumping units

- NX-LFT Type
**Fire pumps**

Teral presents the industry's rst unitized fire pump. Its high-level technology and reliability have won considerable praise.

**Surface fire pump units**

- **MJF Type**
- **MKF/MF Type**
- **NXF Type**

**Specified facility water service linked type**

- **NXFT Type**

**Fire pump with engine**

- **MKFD Type**

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**Submersible drainage pumps (For drainage)**

- **Submersible shallow water level**
  - **LG2 Type**

- **With cutter**
  - **KO Type**

- **Compact**
  - **PL Type**

- **Effluent pump unit**
  - **RPU Type**

- **Stainless steel**
  - **KCS2 Type**

- **Semi-vortex**
  - **SVG Type**

- **Pump unit**
  - **U-PLT/ U-PVT Type**
Household pumps

Household pumps used in houses and housing complexes. We offer ideas for pressure pumps, deep well pumps, submersible pumps, etc. that are tailored to installation sites and conditions of use.

**What is the suction head?**
- If the suction head is 8m or higher, please select a submersible pump (HP type) or a shallow/deep well pump (KP type).
- 8m or less, please select either a shallow well pump (WP type) or a shallow/deep well pump (KP type).
- 3m or less for pressure pumps, please select a water mains pressure unit pump (WP-S or THP-D type).

**What is the delivery head?**
- The head height is a measure of the distance from the pump to the highest outlet.

**What is the capacity you need?**
- A good way to estimate the required capacity is to multiply the number of suites in simultaneous use by 10 liters per minute.

**Should I choose manual or automatic?**
- Generally, households use an automatic system, in which water flows as soon as the tap is turned.
- If water is going to be used continuously for a prolonged period, it may be better to select a manual system (one that requires action to start and stop the pump).

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**Pump Line up**

- **Compact water supply pump**: THP2-V-DW Type
- **Deep well multistage inverter turbine submersible pump**: TWS-V Type
- **Shallow well constant pressure water supply pump**: THPS5 Type
- **Shallow well automatic pump**: WP Type
- **Shallow well inverter pump**: TWS Type
- **Shallow/deep submersible pump**: HKP Type
- **Shallow/deep well automatic pump**: KP Type
- **Shallow well manual pump**: CP Type
- **Pressure cistern**: ST Type
- **Water mains pressure unit pump with water receiving tank**: RMB Type

(For use with THP5 Type)
Solid reliability and ease of maintenance are musts for units of machinery. These highly distinctive products respond to the needs of a wide variety of workplaces.

**Industrial/Set Pumps**

**Coolant pumps**

- **Compact immersion type**
  - VKP Type

- **Compact multistage immersion type**
  - LHW Type

- **Compact multistage immersion type**
  - VKA Type

- **Compact multistage immersion type with stainless steel liquid contact parts**
  - VKC Type

- **High flow immersion type**
  - LFO Type

- **High flow multistage immersion type**
  - LPW Type

- **High-head multistage immersion type**
  - VKB Type

- **Compact self-priming type**
  - VKN Type

- **High flow multistage self-priming type**
  - LPS Type

- **For tank interior cleaning**
  - SKM Type

**TRP type internal gear pumps**

- **Electric motor pump**
  - TRP-MHC Type

- **Low-flow, low-pressure pump**
  - TRP-MS Type

- **Low-flow, low-pressure pump**
  - TRP-A Type
Fans have come to play an indispensable role in today's ever more complex urban environments. Our varied line-up of high safety products help to maintain comfortable environments in a number of ways.

We are proud to present this diverse line up of products, used everywhere from air blowers in large-scale underground parking garages and subway stations, to ventilation units in hot water supply rooms.

For building ventilation and air conditioning

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For building ventilation and air conditioning

Sirocco fans (Centrifugal fans)

Diagonal flow fans

Axial flow fans

Mild fans (Limit-Load fans)
Industrial air blowers, Set fans

Fan Line up

Air-cooling ventilators in thermal electric power plants, buildings, and factories help to maintain comfortable air conditions by sending fresh air and water. These safe, high-performance devices help keep industrial facilities clean.

Chemical fans

- PVC sirocco fan
  - CLP Type
- PVC axial flow fan
  - AEP Type

Rooftop ventilator

- Standard type
  - S-series

Smoke ventilation fans

- Motor driven centrifugal smoke ventilator
  - CLFII-CMF3(R) Type
- Smoke ventilation axial flow fan
  - AESIV(R) Type

Fans for special uses

- Mini jet fan
  - MZT/MZF-T Type

Energy recovery ventilators

- Building use
  - Econo unit
  - EU Type
Air-cooling ventilators in thermal electric power plants, buildings, and factories help to maintain comfortable air conditions by sending fresh air and water. These safe, high-performance devices help keep industrial facilities clean.
Pressure fans

We provide a variety of pressure fans, from standard types to stainless steel or frameless types, with various blade diameters and materials suited to a range of applications and conditions of use.

Fan Line up

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Agricultural ventilation fans

Our extensive lineup of products allows us to respond with pinpoint accuracy to a range of needs, from air conditioning and ventilation for plastic greenhouses and livestock barns, to drying the harvest or frost prevention fans for fruit gardens.

Leave the existing functions intact, while adding multiple controls!

Ventilator fan with inverter for livestock use
AP-100-DC3G Type
Dedicated controller
AP-CR-100D

Swing fan with inverter
APS-100-DC3 Type

Standard ventilator fan for livestock use
AP-100-1G Type

Frost prevention fan
AFF Type

We provide a variety of pressure fans, from standard types to stainless steel or frameless types, with various blade diameters and materials suited to a range of applications and conditions of use. Our extensive lineup of products allows us to respond with pinpoint accuracy to a range of needs, from air conditioning and ventilation for plastic greenhouses and livestock barns, to drying the harvest or frost prevention fans for fruit gardens.
Filtration equipment is used for industrial cooling water, process water, and a range of other wastewater treatment applications. By making effective use of rainwater and other resources, this system also contributes to resource recycling.

**Pools**

In addition to traditional indoor and outdoor swimming pools, recent years have seen the growing popularity of sports clubs offering Jacuzzis, cold-water baths, waterfall-style baths, saunas and other bathing facilities. Teral, in addition to providing sand and other types of filtration equipment using either cartridges or FRP tanks, also provides a fully automatic, total control system to provide centralized control for automatic chlorination injectors and ozone treatment devices.

**Well water filtration systems**

In the area of well water filtration systems for hotels, golf clubs, fitness clubs and factories, Teral provides systems optimized to the raw water quality and the customers’ needs. We collect data through on-site inspections and coordination with well-drilling businesses to create a total system to provide drinkable water, covering the initial planning and basic design, construction design, construction and maintenance, while seeking to minimize water charges.
Coolant filtration system

3 dimensional flow analysis has allowed us to optimize design of the coolant tank which in turn allows for coolant purification. Terai's unique ingenuity and technical capabilities allows us to provide products which are more environment and people friendly.

Drum Filter Type Coolant Filtration Equipment

**Features** Patent Pending

- Drum filter provides reliable, highly accurate filtering
- Uses newly developed, high strength filters
- Filters can be replaced without removing liquid

Cyclone Type Coolant Filtration Equipment

**Features** Patent Pending

- No consumable parts (No drum filter)
- Energy saving (No backwash necessary)
- Newly developed cyclone separator
- Made more compact. Installation area reduced 17%
  (Compared to other Terai products)
Kitchen Garbage Disposal Systems

Kitchen garbage disposal systems crush garbage in a disposer, and then purify the garbage in a treatment tank before releasing it into the sewer system. This system has drawn attention for its ability to reduce the offensive odor from treating kitchen garbage while also protecting the environment.

Water-treatment systems/Solar battery pump systems

We provide water treatment systems that play a key role in improving the environment, such as pretreatment system for kitchen water and water reuse systems to purify wastewater, necessary for hotels and restaurants to use as intermediate water supply.

Pretreatment system for kitchen wastewater (BT Bio-clean)

This system purifies wastewater from kitchens, which contain highly concentrated organic pollutants and oils, to bring it up to the standards required for release into the public water mains. Instead of the existing pressurized flotation separation system, by using our unique organic treatment method called BT Bio-core, a separate treatment process for sludge and scum is no longer required. This system has won great praise from our customers.

Rainwater treatment system

The rainwater filtration system seeks to filter and disinfect rainwater collected from the roof or tanks above the roof to improve the quality of water and allow it to be reused. Using this water in toilets and for firefighting purposes allows for significant decreases in clean water charges, and there has been a sudden surge in the number of new buildings introducing this type of system.

Waste water reuse (Intermediate water supply) system

Substitute clean water is waste water that has been purified of organic pollutants and microorganisms, then filtered and disinfected. Waste water reuse systems use this water as an intermediate water supply for toilets and firefighting purposes. The issue of conservation and recycling of water resources has attracted considerable attention in a number of fields.

Solar battery pump system

This environmentally-friendly pump system runs on solar energy

1. Clean energy production as light is converted directly into electrical energy
2. Uses renewable solar energy
3. No external power source required. Can be installed in any location.
4. Environmentally friendly, zero emissions of greenhouse gas (CO₂)
5. Pump system can be selected to fit the intended application (inverter type, sensorless brushless motor type, compact DC motor type)
6. Using submersible pumps results in extremely low running noise
**Kitchen Garbage Disposal Systems**

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**Kitchen Garbage Disposal Systems**

Disposing of kitchen garbage is as easy as putting it in the dispenser and pressing the switch, this system greatly reduces the load imposed by garbage collection. This system has rapidly come into wide use in sophisticated high-rise apartment buildings as well as business use which is required to have strict hygiene controls.

Garbage collection points can be kept small, preventing crows, stray cats or other animals from being attracted to the site.

Eliminating the smell of kitchen garbage and leaks from garbage bags helps keep the elevators and stairs clean.

The amount of garbage that has to be taken out is cut in half, greatly helping housewives and the elderly.

**Rooftop greening system**

Rooftop greening systems have drawn attention as a possible solution to the heat island effect of major cities. By combining bamboo charcoal with a rainwater collection and circulation system, unique designs can be created without sacrificing ease of maintenance.

**Bamboo TECO Garden Greening System**
Water supply and drainage, air conditioning and water treatment systems work around the clock without pause in order to allow us to continue to enjoy safe, comfortable living conditions. In the event of an emergency, we must respond quickly, with highly skilled technical personnel to pinpoint the cause.

Teral Technoservice’s nationwide network forms the cornerstone of our 24-hour emergency response organization, to catch issues before they become problems and to conduct regular maintenance, providing the customer’s system with complete safety support.

**Periodic maintenance, cleaning service**
Preventing problems before they occur, by maintaining your facility’s equipment in the best possible condition, effectively reduces costs. In order for you to continue using this equipment safely over a prolonged period, we recommend conducting regular maintenance and cleaning.

**Maintenance coordinator service**
Restaurant equipment is subject to a high level of wear and tear, and regular maintenance and cleaning is essential. It is important to manufacture restaurant equipment that is energy efficient and easy to maintain, to start with. Teral provides total coordination with an eye to keeping down costs.

**Improvements: Proposal service**
Around 10 years after installing machinery, its performance begins to degrade and maintenance costs begin to rise. Teral can accurately assess the device’s conditions of use, and present timely, customer-focused solutions.

**Improvements: Construction service**
There is growing interest in the reuse of old water pipes, construction to switch to direct pressure/booster direct-coupled water supply systems, the replacement of water pumps and other measures to improve safety while saving space. We use the latest technologies to bring you fast and effective service.

**24-hour emergency response**
Major cities never sleep, and so trouble with plumbing system or air conditioning equipment can cause serious damage. Teral provides a 24-hour emergency response service, linking our monitoring center with automated emergency notification systems. In the event of a problem, we can respond quickly to keep the customer safe and worry-free.
In the event of an emergency, we must respond quickly, with highly skilled technical personnel to pinpoint the cause. Teral Technoservice’s nationwide network forms the cornerstone of our 24-hour emergency response organization, to catch issues before they become problems and to conduct regular maintenance, providing the customer’s system with complete safety support.

- **Discharge casing**
- **THP5-V outdoor cover**
- **Guide vane**
- **Fire extinguisher box**
- **Drum holder**
- **Companion flange**
- **Vacuum box (main body)**
- **Vacuum box (lid)**
- **Mold motor**
- **Junction pipe**
- **Hair catcher**
- **Discharge elbow**
- **Small motor**

Teral presents its unique AMP system, which makes it easier to create a range of parts out of plastic, from high-strength thick walled parts to large-scale parts.

We provide not only complete pumps, but also a strong line up of associated parts, allowing us to also respond to needs for individual parts.
Modern urban environments are rapidly growing and increasingly diverse. Customers' needs and issues facing societies grow broader and more complex. In order to respond to these trends, Teral is further improving the specialized knowledge of group companies working in a variety of fields, to provide a total solution to the issue of creating a safe and comfortable environment. Through leading-edge technologies and highly-focused marketing, we are helping to preserve tomorrow's irreplaceable environment, in Teral's home province of Hiroshima, in every corner of Japan, and around the world.

**Teral Inc. Factory**
Originally established to produce and sell pumps, through the development of pumps we gained unique insights into fluid theory, which we put to use in the manufacturing and sale of air blowers and total heat exchangers. This company forms the core of the Teral Group. Currently we have become well known as the inventor of the industry's first utilized fire pumps and water supply pumps. In 1988, the company name was changed from Kyukuto Machine Manufacturing Co., Ltd. to Teral Kyukuto Inc., and to the current name in 2008. We continue to devote ourselves to activities designed to improve the environment. Founded: August 1918. Established: April 1950. Capital: 78 million yen. Location: 230 Moriwa, Miyuki-cho, Fukuoka-shi, Hiroshima 720-0003, Japan.

**Teral Technoservice Inc.**
This service and maintenance group is involved in a range of business activities, from air-conditioning installation to renovation advice and water treatment system engineering. The company has worked in a wide variety of areas including pumps and fans, air conditioning system maintenance, inspection and repair to facility improvement and other fields since becoming independent of Teral Kyukuto Inc. in 1978. More recently, we have created a strong business in the field of rooftop greening. A 24-hour monitoring system provides emergency response, protecting the lifelines of urban centers. Established: October 1976. Capital: 64 million yen. Location: 230 Moriwa, Miyuki-cho, Fukuoka-shi, Hiroshima.

**Teral Taku Inc.**
Pump manufacturer specializing in household pumps and machine pumps. We have been producing household "Kogen" pumps for more than 50 years. Today, we're realizing various possibilities and continuing to evolve by redesigning our "New Kogen" pumps. Our years of technical expertise in water, oil and fluid pumps combined with the seamless production of motor parts within the company provide a wide range of possibilities. This business unit joined the Teral Group in March 2003. Established: March 1970. Capital: 80 million yen. Location: 3998 Nagao, Minami Takamachi, Take-shi, Saga.

**Teral Kurita Inc.**
A fan manufacturer which provides a line-up of products to suit the needs of a wide variety of fields including industrial, equipment and agricultural. Wind production technologies led to the development of ventilation systems, and from there into other applications of this technology, such as frost prevention, dehumidification and drying systems used in agriculture. We welcome orders for customized devices to suit specific needs. Since July 2004, this business unit has been continuing its business activities as part of the Teral Group. Established: April 1947. Capital: 100 million yen. Location: 2-101 Ara, Kitamoto-cho, Saitama.
Teral Asia Limited

Based in Hong Kong, this company handles worldwide marketing, sales strategy and the planning of appropriate production bases based on these operations and also serves as the holding company for Teral’s overseas group companies in Thailand and China.
Established: March 2011
Address: Room 1001, 10/F, Olympia Plaza, 255 King’s Road, North Point, Hong Kong

Teral Thai Co., Ltd.

Southeast Asia has a great deal of potential as a manufacturing hub and new business field. Teral Thai Co., Ltd., established in 1991, serves an important point for production and sales aimed at this new market in the coming era. The company mainly handles the manufacture and sale of water treatment and air conditioning equipment.
Established: September 1991 / Capital: 35 million baht
Address: 'Bangpa-In Factory': 150 Moo 16 Udornrat Road, T. Bangkraan, A. Bangpa-In, Ayutthaya 13160 Thailand

Teral General Machine (Shanghai) Co., Ltd.

Teral General Machine (Shanghai) was established in 2002 to take advantage of and expand the Chinese market, and to provide greater cost competitiveness in the Japanese market. This company is primarily engaged in the design and production of stainless steel pumps, water supply devices and air blowers, as well as the sale of our products, and it will play an increasingly important role in the Teral Group’s future growth.
Established: November 2002 / Capital: 2.1 million US dollars
Address: No.285, Yuan Qu Road(N), Bei Gao, Min Hang District, Shanghai 20110, China

Anhui Taiwei Electric Machine Co., Ltd. (T&W)

An electric motor company established through a merger with a Chinese electric motor manufacturer. The fusion of China’s manufacturing power and Japan’s technology and quality management have led to the creation of this plant which carries out assembly of 0.2-90 kW electrical motors. Motors are sold in Japan, China and Southeast Asian markets. At present, the plant has 2 production lines and maintains a daily production capacity of over 100 units per day.
Established: June 18/2009 / Capital: 2,500,000 USD
Address: Caifu Road, Jingchuan Town, Jing County, Xuanchong City, Anhui Province, P.R. China