



STAIRS PUMPS

COMPANY PROFILE

Company

Stairs Industrial Company Ltd. was established in 1981 with the goal of becoming a major international manufacturer of high quality submersible pumps that would meet or exceed international quality standards, be competitively priced, and would be supported by an organization that would provide excellent service to our customers, while at the same time considering the impact of our pumps and activities on the environment. By constantly and diligently working with these goals in mind, Stairs Industrial Co. Ltd. has grown to be a major international manufacturer of submersible deep well pumps.

After becoming a leading manufacturer of submersible pumps in the Taiwan market, our stainless steel pumps were introduced with the collaboration of an overseas pump manufacturer, in the late 1990's. At that time we began to develop international sales to pump assemblers and manufacturers. Sales are now made to customers in more than 50 countries.

Most of our customers, including some of the best known international pump manufacturers, sell our pumps under their own brand names. Although the name of our company is not widely recognized outside the pump industry because most pumps are sold under other brand names, within the pump industry, Stairs Industrial Co. Ltd. is widely recognized as an innovative, reliable and supportive manufacturer and supplier of submersible pumps for deep wells.



Profile



The continual expansion of sales to new markets and new customers, as well as the growth of sales to existing customers, is a testament to the high quality of our pumps, our competitive pricing, and the exceptional service provided by our staff working closely with our many customers.

We have now adapted our submersible pump design and manufacturing know-how to develop a high quality line of vertical and horizontal pumps for use in high rise buildings and for numerous industrial applications.

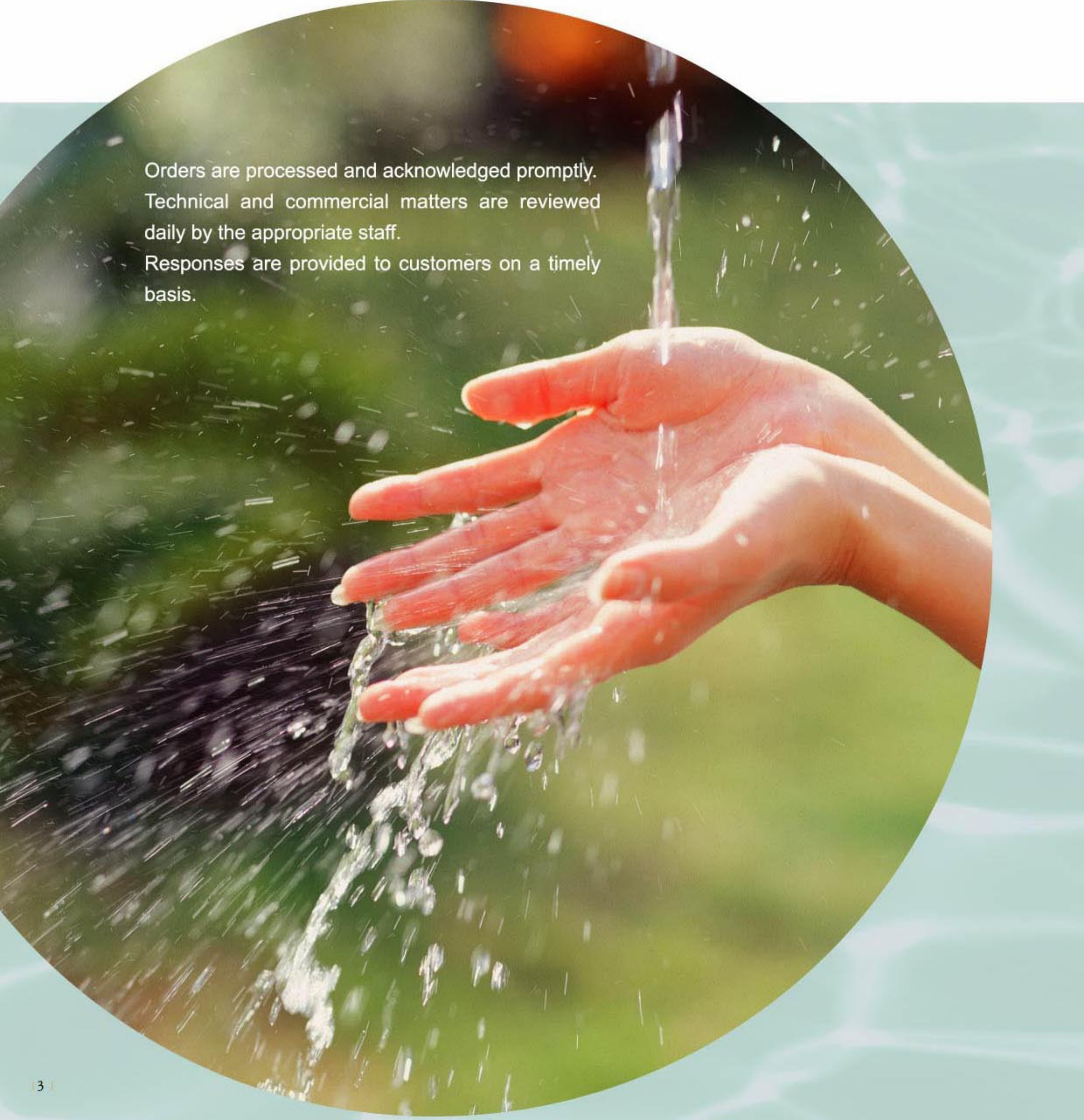
Our staff has now grown to about 150 persons. And our production space now encompasses about 17000 square meters housed in three factory buildings, two of which were inaugurated within the past three years.

Increasing sales and our expanding product lines have made it necessary to further increase our production capacity. To take advantage of lower production costs, these investments are being made in Guangzhou, China. Stairs has now taken a partnership position in a stainless steel foundry with 400 employees, and Stairs has established a wholly owned factory adjacent to the foundry, to machine stainless steel castings for our own production to our exacting quality specifications. The capacity of this factory will be increased gradually with the plan to employ about 60 highly qualified personnel.

Although we are proud of what we have accomplished, we realize that we must continually work hard to develop and produce even better pumps, and provide even better customer service while at the same time taking into consideration the affect of our activities on the environment.



Customer Service



Orders are processed and acknowledged promptly.
Technical and commercial matters are reviewed
daily by the appropriate staff.
Responses are provided to customers on a timely
basis.

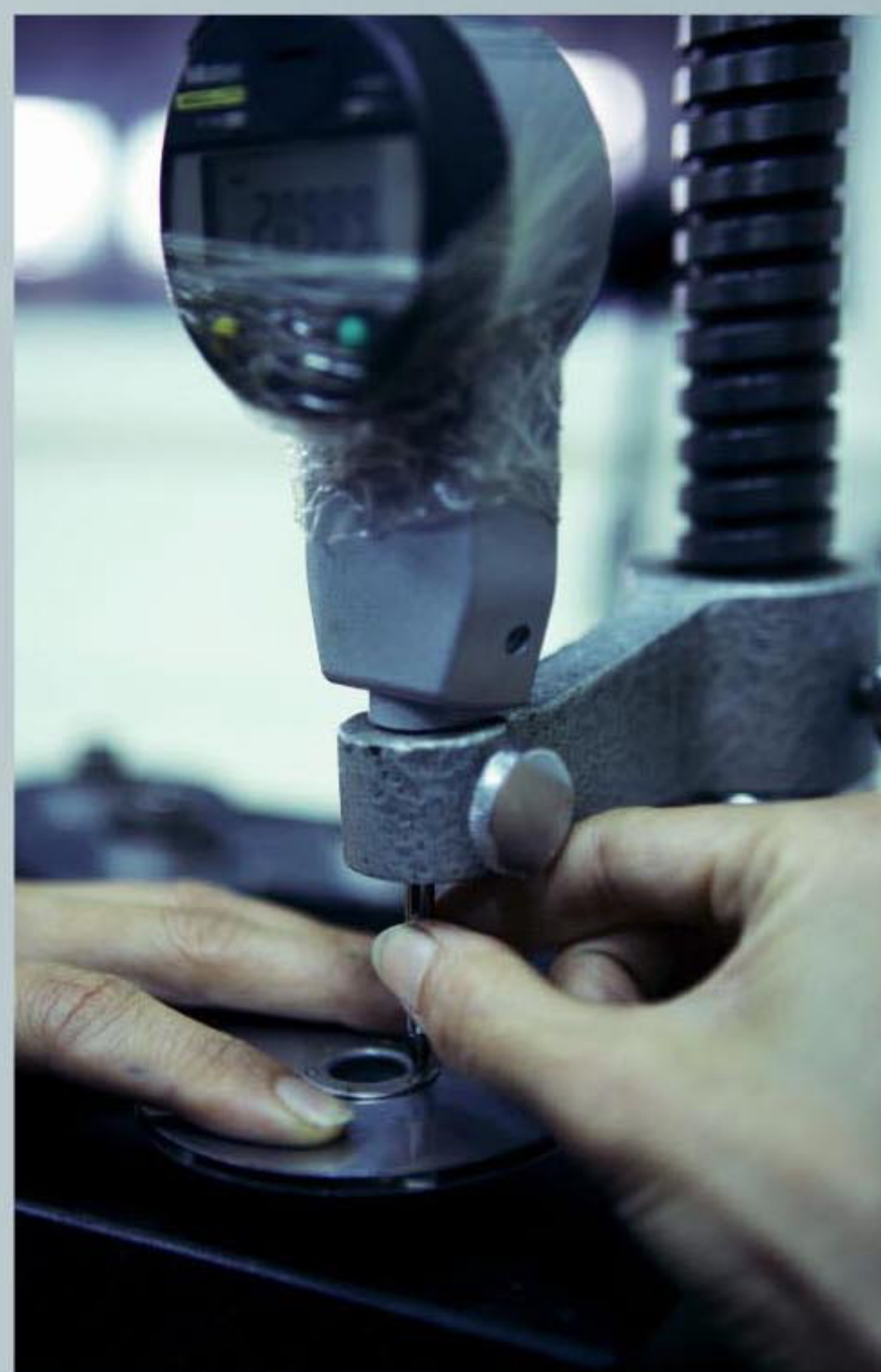
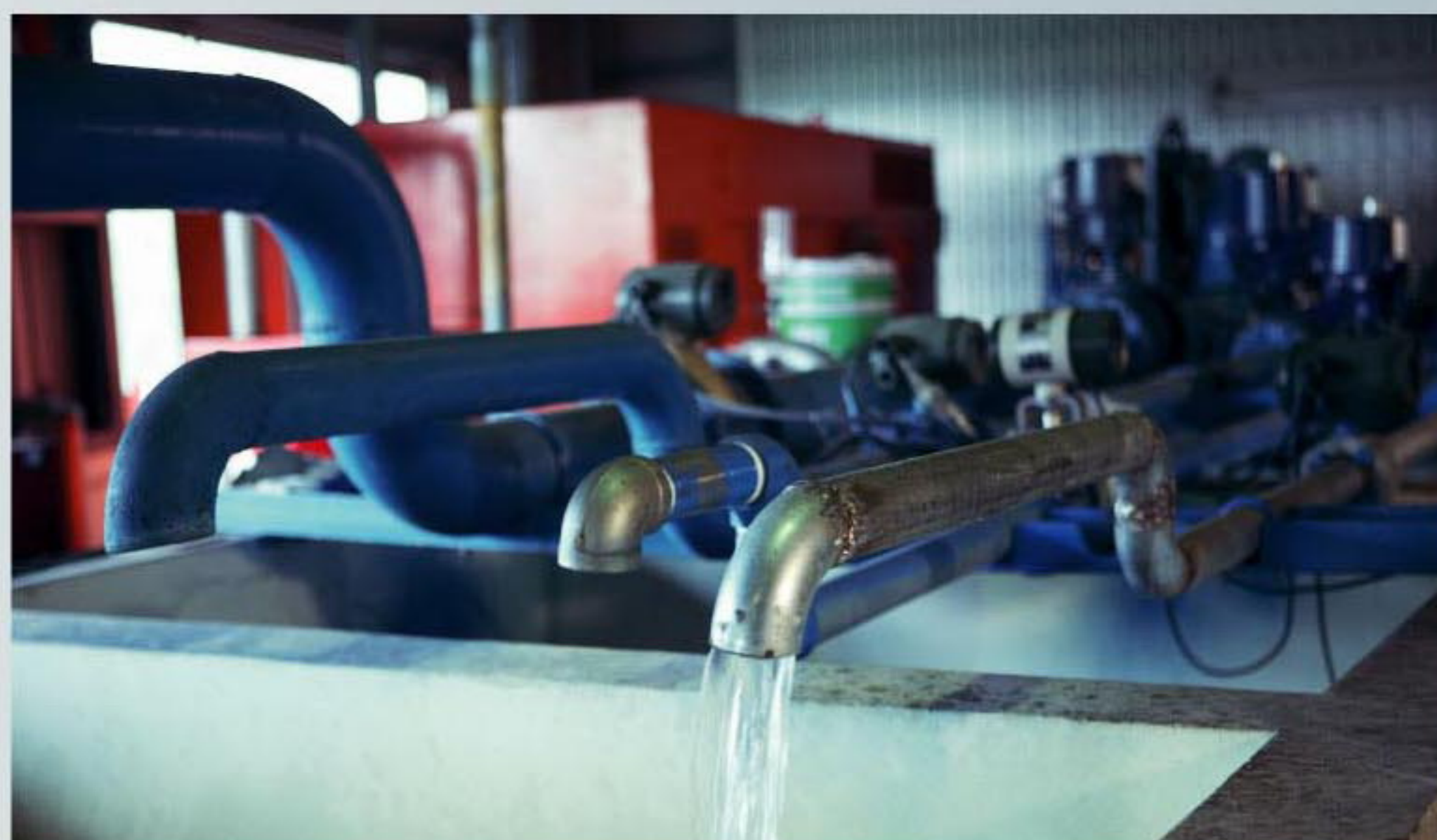
Our customer oriented staff provides our customers with prompt, efficient and considered support so that they can be successful.

Our success depends upon the success of our customers. And so, we try very hard to provide our customers with the support that they need to be successful. Working together, we can all be successful.





Quality



Control

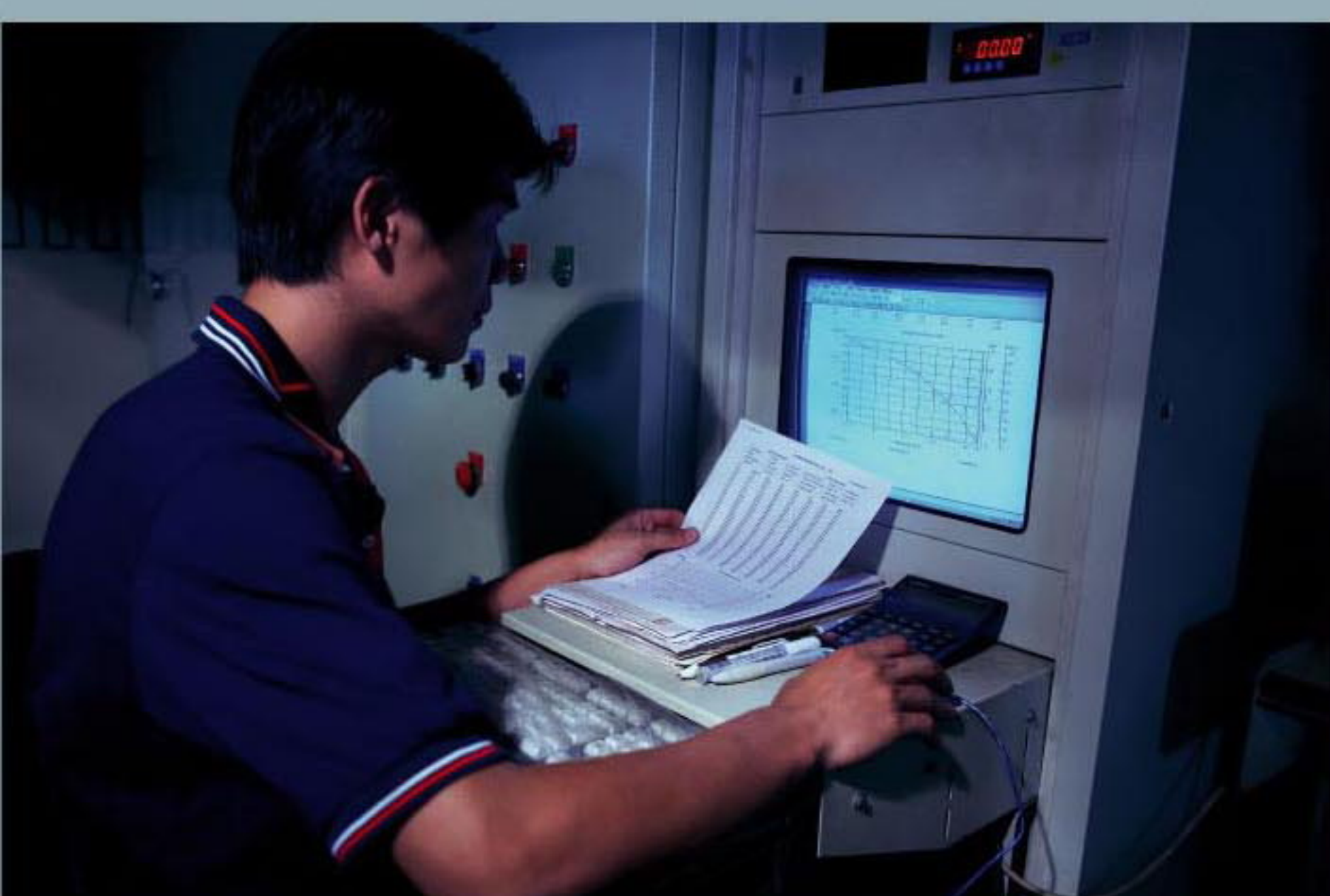


State of the art, Hi-Tech test equipments from domestic and international manufacturers have been purchased and are used to assure that all parts, as well as the finished pumps, meet specifications.

Individual operators are provided with appropriate gauges, tooling and instructions that enable them to assure the quality of their workmanship.

To further guaranty our quality, a formal quality assurance program under the supervision of our Quality Control Department was established years ago. This enables us to meet ISO 9001 quality standards.

All of this is supported by a continual training and re-training program for all of our production staff.





Production



When Stairs was first established and until recent years, much of the actual production was done outside by sub-contractors. And so, much of the quality control was in the hands of our suppliers. It was soon realized that to guaranty high quality standards, not only must the final product - our pumps, meet those standards, but also all of the component parts that go into our pumps. And to control the quality of components better, it was decided to bring as much production as possible in-house. This was done gradually over a number of years so that now about 95% of all parts used to produce our pumps, are manufactured in-house. This also allows us to implement design changes very quickly.

Stairs has invested a great deal of money to acquire the machinery to accomplish this transformation. And now, Stairs has full control over nearly all production functions from mold design-mold production-stamping-welding-cutting-grinding-polishing-injection molding-assembly-testing-packing. We can now more confidently guarantee the high quality of Stairs pumps.

Production



QUALITY is the foundation upon
which Stairs Industrial Co. Ltd. has been built.



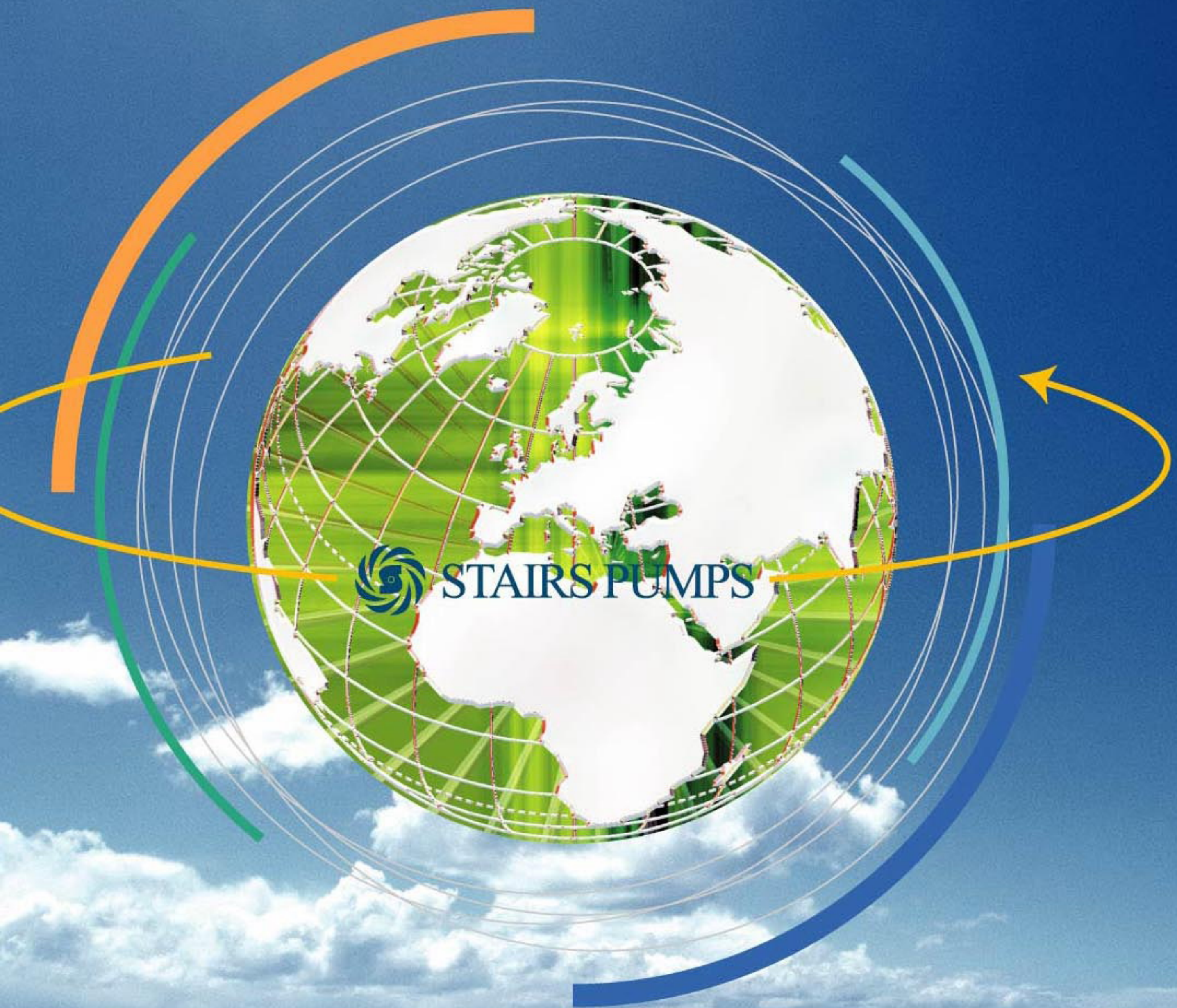
Innovation & Design



To continue growing, Stairs must continually work to improve the performance and life of our pumps, and develop new lines of pumps to broaden our product base.

Many ideas for new developments are generated internally. But many more new developments are based on suggestions from our customers. We work closely with our customers and value their suggestions highly.

Our staff has the pump knowledge and experience, also the in-house resources, to make and test proto-type changes of pump components and complete pumps before placing them into production.



VISION

Stairs Industrial Co. Ltd. is a world class manufacturer of submersible pumps for deep wells which provide users worldwide with means of obtaining clean and safe drinking water, as well as water for irrigation and industrial applications. And so, our pumps help to improve the lives of users worldwide.

Stairs Industrial Co. Ltd. is also a manufacturer of efficient and dependable booster pumps for industrial applications and to provide water in high rise buildings.

Stairs Industrial Co. Ltd. pumps are designed to provide users with many years of efficient, cost effective and dependable service.

Working closely with our customers, everyone benefits.

SP Series 4", 6", 8" Stainless Steel Submersible Pumps

SP 4", 6" and 8" submersible pumps are made of corrosion and abrasion resistant stainless steel and have been developed in accordance with state-of-the-art technology. The SP series of pumps are manufactured to the highest standards for energy efficiency, high performance, rugged construction and long service life for the most demanding applications.

Operating Limits

50Hz

- Capacity: max. 120 m³/h
- Head: max. 432 m

60Hz

- Capacity: max. 150 m³/h
- Head: max. 540 m
- Liquid temperature: 0°C to + 60°C
- Sand content: Max. 50 g/m³

Applications

- Potable water supply from deep wells
- Municipal and industrial waters supply
- Irrigation and other agricultural applications
- Fire fighting systems
- Pressure boosting in high-rise buildings and other applications



Product Lines

ST 4" Submersible Pump with Plastic Impellers and Diffusers

Stairs 4" ST series of pumps are manufactured using high quality materials and are designed to deliver years of dependable service. Pumps are on the floating impeller design which reduces starting torque requirements and reduces the effects of sand in the water.

Operating Limits

50Hz

- Capacity: max. 24 m³/h
- Head: max. 322 m

60Hz

- Capacity: max. 27.6 m³/h
- Head: max. 415 m
- Temperature: 0°C to + 60°C
- Sand content: Max. 50 g/m³

Applications

- Potable water supply from deep wells
- Municipal and industrial waters supply
- Irrigation and other agricultural applications
- Fire fighting systems
- Pressure boosting in high-rise buildings and other applications



SB, SBI, SBN Series Vertical Multistage Centrifugal Pumps

SB, SBI and SBN vertical multistage centrifugal pumps are powered by standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pump unit consists of optimized hydraulics, various types of connections, an outer sleeve, a pump head, pump base, four stay-bolts and various other parts. The pump base has suction and discharge ports on the same level (in-line). This in-line design provides a more compact design and easier installation. All pumps are equipped with a mechanical shaft seal of the detachable cartridge type. SB, SBI and SBN pumps are available with various stages and capacities to provide customers a choice of models for many applications.

Operating Limits

50Hz

- Capacity: max. 120 m³/h
- Head: max. 325 m

60Hz

- Capacity: max. 145 m³/h
- Head: max. 270 m
- Liquid temperature: -15°C to + 120°C

Applications

- | | |
|--------------------------------|---------------------------|
| ● Water distribution | ● Irrigation |
| ● Industrial washing equipment | ● Water treatment |
| ● Heat recovery | ● H.V.A.C. |
| ● Pressure boosting | ● Cooling and chiller |
| ● Filtration equipment | ● Aggressive liquids |
| ● General industry | ● Fire-fighting equipment |
| ● Auxiliary equipment | ● Reverse osmosis |
| | ● Swimming pools |



Product Lines

CB, CBI Series Horizontal Multistage Pumps

CB and CBI series of pumps are horizontal, multistage centrifugal pumps, with the impellers mounted on the motor shaft. The pump housing is attached to a base plate. The design makes the pump suitable for installation in small spaces. A high quality mechanical seal is included as a part of the pump.

CB: The discharge and suction chamber are made of cast iron. All other pump parts in contact with the liquid are made of stainless steel.

CBI: All parts of pump in contact with the liquid are made of stainless steel.

Operating Limits

50Hz

- Capacity: max. 14 m³/h
- Head: max. 59 m

60Hz

- Capacity: max. 16 m³/h
- Head: max. 78 m
- Liquid temperature: 0°C to + 90°C

Applications

- Domestic use
- Liquid transfer and circulation of liquids within light industry and farming
- Pressure boosting
- Heating and cooling systems
- Specialized OEM equipment



HBI, HBN Series **Multipurpose Stainless Steel Pumps**

HBI and HBN series are light-duty stainless steel horizontal multistage centrifugal pumps for use with base mounted electric motors. The mechanical seal is designed for simplified replacement.

These pumps are suitable for pumping slightly corrosive liquids because product contact parts are 304 or 316 stainless steel.

Operating Limits

50Hz

- Capacity: max. 14 m³/h
- Head: max. 58 m

60Hz

- Capacity: max. 16 m³/h
- Head: max. 78 m
- Liquid temperature: -0°C to +110°C

Application

- Air-conditioning system
- Cooling system
- Industrial cleaning
- Water treatment(Water purification)
- Fertilizing/metering system
- Environmental application
- Other special applications



Product Lines

CBK, SBK Series Immersible Pumps

Of advanced design and superior quality, the CBK and SBK is vertical multistage centrifugal pump, available in a wide range of sizes. CBK, SBK pumps are designed for industrial use, particularly for pumping cooling lubricants for machine tools. Pumps are suitable to carry thin, clean, non-explosive liquids without abrasive particles or fibres.

Operating Limits

CBK 50Hz

- Capacity: max. 14.4 m³/h
- Head: max. 100 m

CBK 60Hz

- Capacity: max. 16.8 m³/h
- Head: max. 105 m

SBK 50Hz

- Capacity: max. 8.5 m³/h
- Head: max. 235 m

SBK 60Hz

- Capacity: max. 10 m³/h
- Head: max. 245 m
- Liquid temperature: -10°C to +90°C

Applications

- Industrial circulation system
- Washing/cleaning system
- Filtration system





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