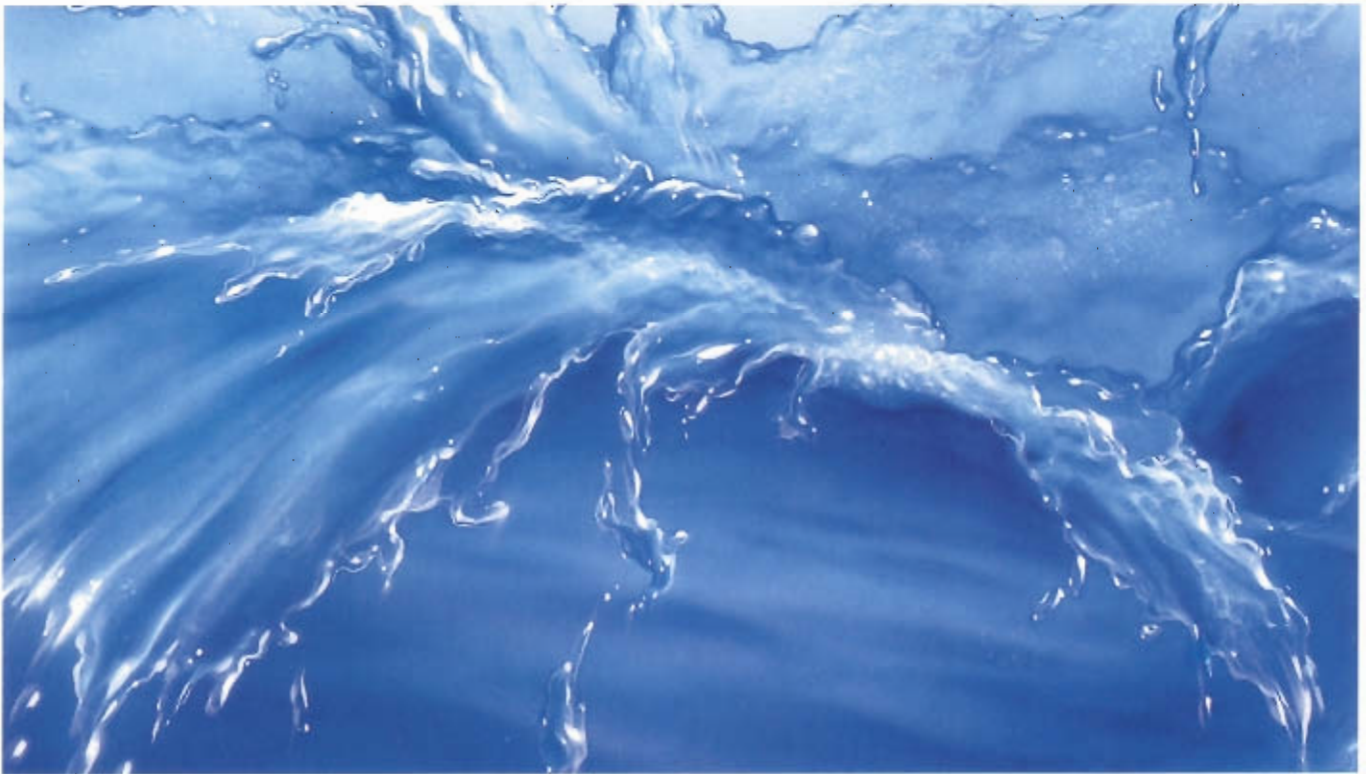


Kubota

PUMPS



KUBOTA
KUBOTA

Kubota and Hirakata Plant

Outline of Kubota

Established in 1890 as a foundry, Kubota Corporation is today Japan's largest integrated manufacturer of water related equipment including pumps, valves and ductile iron pipe as well as the largest manufacturer of agricultural machinery. Furthermore, Kubota is one of the world's largest specialists in the production of industrial castings and is also a leader in environmental control facilities and other engineering. Kubota is organized into twenty two production divisions operating twenty three manufacturing plants in Japan. Kubota's export line includes pumps, valves, pipes, castings, agricultural machinery, construction machinery and many other items as well as engineering and technology for the aforementioned and their related industries. Kubota's capability is not confined within manufacturing but it covers turn-key contracts for pumping stations, pipe lines, irrigation systems, sewage treatment plants, etc. In addition to the facilities in Japan, Kubota has overseas subsidiary affiliates and representative offices in fourteen countries for its international operations.

Pump division and its Hirakata Plant

Kubota began production of pumps in 1952 and is now one of the largest pump manufacturers in Japan with export to various countries throughout the world.

Kubota with its wide experience in water related field provides everything required for a pumping system contract, from design to turn-key completion.

Kubota's pumps are produced at its Hirakata Plant which is located in Hirakata near Osaka, Japan. The plant is equipped with the latest technology and advanced facilities under strict quality control.

In addition to designing and manufacturing facilities, Hirakata Plant has research and development facilities which not only carries out basic research activities of pump proper, but improves and develops technology for total pumping systems, including intake channels and suction pits as well as discharge mains to meet the extensive demand for versatile applications throughout the world.



CONTENTS

•Kubota and Hirakata Plant	2
----------------------------	---

•Pump and Fluid System Engineering	5
------------------------------------	---

•Pump Production	
1 Design and Engineering	6
2 Casting and Fabrication	7
3 Machining and Assembly	8
4 Inspection	9
5 Tests	10
6 Shipment and Erection	11
7 Research and Development	12

•New Technology	14
-----------------	----

•Experience	
1 City Water Supply	15
2 Industrial Water Supply	16
3 Power Plant	17
4 Steel Mill	18
5 Desalination Plant	19
6 Flood Control	20
7 Sewage Treatment Plant	21
8 Irrigation	22
9 District Heating and Cooling	23
10 Mini-Hydro Power Station	24

•Main Products	25
----------------	----

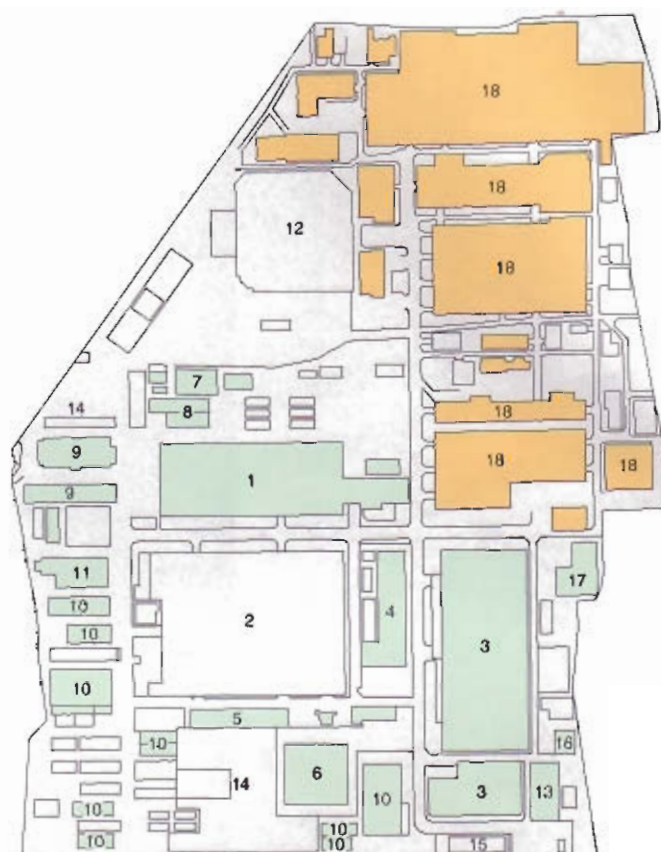
•Kubota Offices	32
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Hirakata Plant

Location	1-1-1, Nakamiya Oike, Hirakata, Osaka
Total Ground Area	306,084m ²
Total Floor Space	126,616m ²
Offices	7,544m ²
First Shop	11,653m ²
Second Shop	19,315m ²
Third Shop	12,618m ²
Fourth Shop	2,897m ²
Fifth Shop (Heat Treatment)	1,420m ²
Sixth Shop	2,641m ²
R & D Shop (Pumps & Valves)	1,350m ²
Steel Casting Plant	56,425m ²
Others	10,753m ²

View of Hirakata Plant

- | | |
|---|--------------------------|
| ① First Shop (Pumps) | ⑩ Ware House |
| ② Second Shop (Pumps & Valves) | ⑪ Cafeteria |
| ③ Third Shop (Construction Machineries) | ⑫ Athletic Ground |
| ④ Fourth Shop (Valves) | ⑬ Swimming Pool |
| ⑤ Fifth Shop (Heat Treatment) | ⑭ Parking Area |
| ⑥ Sixth Shop (Construction Machineries) | ⑮ Labor Union Office |
| ⑦ Pump Research Facility | ⑯ Job Training Center |
| ⑧ Valve Research Facility | ⑰ Substation |
| ⑨ Central Office | ⑱ Steel Casting Facility |



Pump and Fluid System Engineering



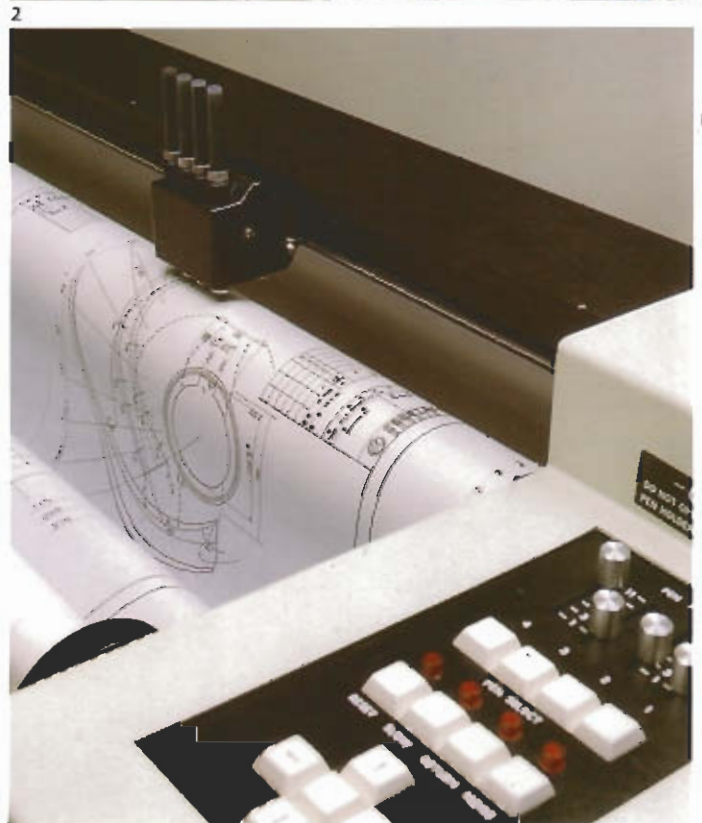
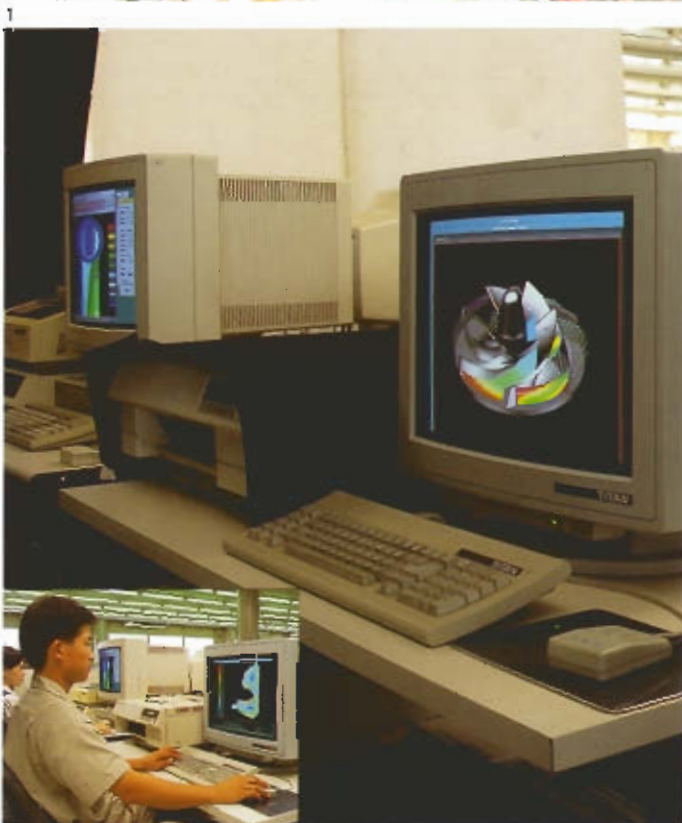
Design and Engineering

Technical requirements and specifications are carefully studied by competent design engineers allocated to these jobs, in order to cover a wider aspect in their documentation.

Extensive experience and advanced technology backed-up by its research and development activities are the winning factors in successful design of Kubota pumps and pumping systems.

Computers assist our engineers by giving detailed design data, structural analysis, vibration analysis, noise analysis, surge analysis and water hammer simulation. A computer aided designing system helps in designing.

- ① Detailed technical discussion with customer
- ② Design room
- ③ Design analysis by computer aided system
- ④ Computer aided automatic drafting system



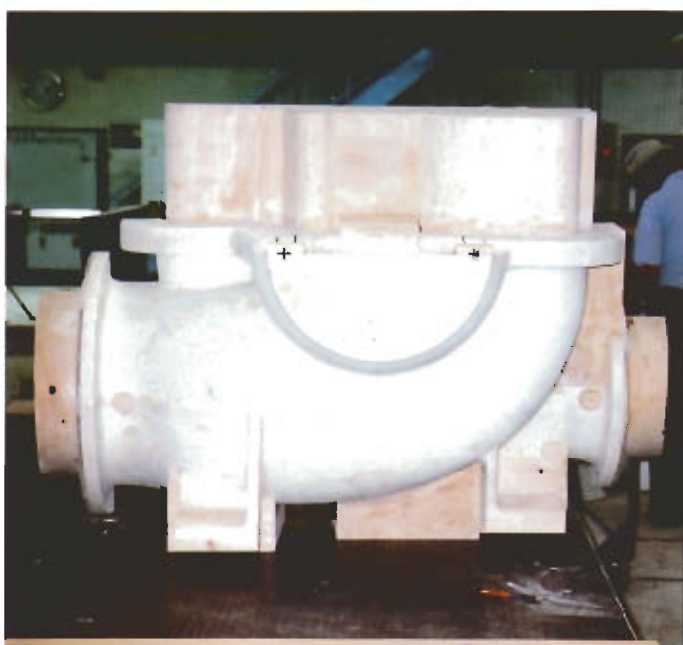
Casting and Fabrication

Most of the castings are made at Kubota's own foundry to ensure a high standard of quality.

Kubota's world leading technology makes it possible to provide the most suitable material for a particular application, and thus attains trouble free performance.

Kubota also has its own fabrication shop where pump parts, pipes, etc. are cut, sheared, stamped, bent and welded with excellent fabrication technique.

- ① Wooden pattern for pump casing
- ② Fabrication of Reduction Gear Pedestal
- ③ Casting of stainless steel parts
- ④ Fabricated spiral casing for a large capacity pump



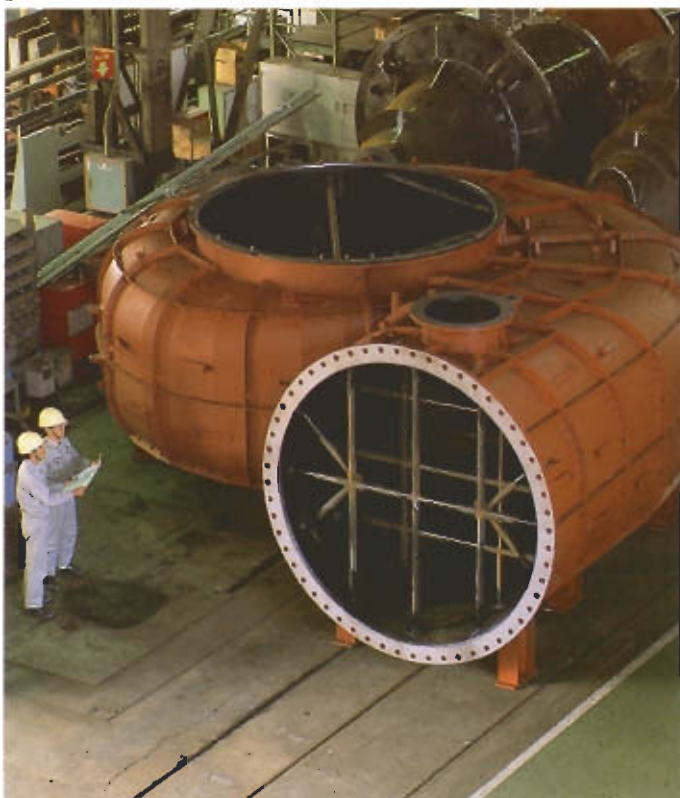
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Machining and Assembly

Materials which have been thoroughly inspected are placed on the machining line where they are turned, drilled, bored, milled and ground into various precision components.

Kubota always endeavors to upgrade its machining facilities to respond to the diversification of pumps.

After machining and inspection, pump parts are forwarded to the assembly lines which are directly connected to the machining lines to attain efficient production. Kubota has various assembly lines exclusively designated for various type and size pumps.

- ① Machining of pump bowl on a NC vertical lathe
- ② Machining of pump casing on a NC horizontal boring and milling machine
- ③ Assembling of impeller and suction bell of a vertical mixed flow pump
- ④ Dynamic balancing test of pump rotating parts



Inspection

The rigid inspection performed after each step of the production process; from raw material to finished products assures the highest quality in products.

Kubota's inspection facilities and experienced inspection specialists can comply with any kind of inspection in accordance with the required standards and specifications.

- ① Tensile strength test
- ② Magnetic inspection
- ③ Dimensional check of a vertical mixed flow pump
- ④ Measurement control room



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Tests

Hirakata Plant has three test sumps equipped with computer aided measuring system. One is for large capacity pumps and has three sets of five meter wide weirs and two sets of three meter wide weirs, where pumps with diameters up to 3,500mm can be installed and actual operation tests with flow up to 1,500m³/min. can be performed.

In addition, there are a test sump for medium to small size pumps as well as a test sump for small size pumps.

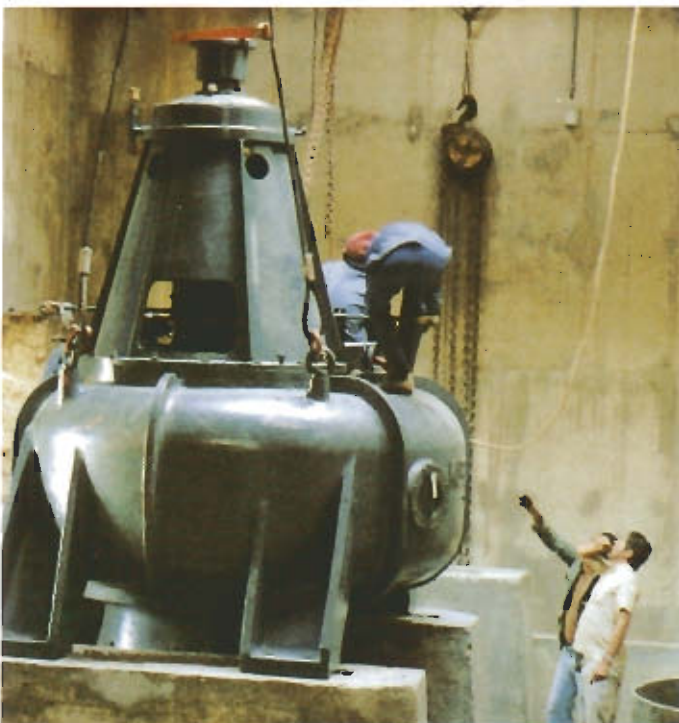
- ① Performance test of a double suction volute pump
- ② Test weirs
- ③ Control room for pump performance test
- ④ Witness test by Computer aided automatic measuring system



Shipment and Erection

Shipment and erection are included in total quality control scheme. To insure trouble free shipments and maintain high quality products, Kubota's experts utilize the latest methods and material for shipping preparation including export packing. Erection works are performed in strict quality control under the supervision of experienced staff.

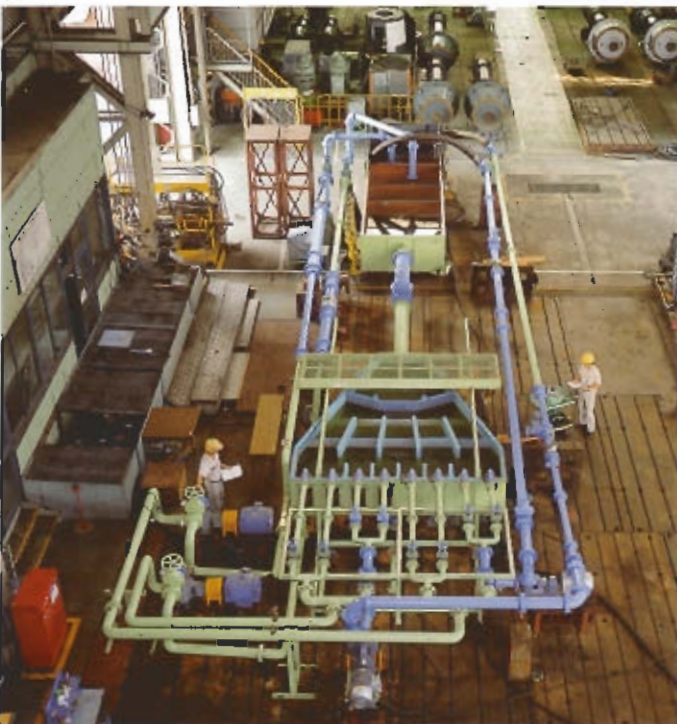
- ① Delivering from factory
- ② Loading on board
- ③ Erection work in pump house
- ④ Erection work in field



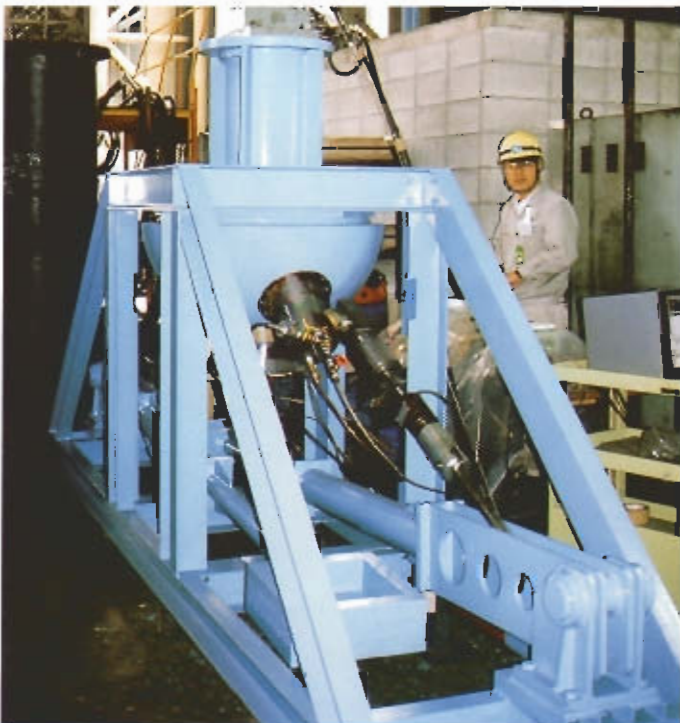
Research and Development

To meet extensive and diversified demands presented by a rapidly changing world, Kubota is engaged in a continuous research and development programme to improve and develop technology for total pumping systems. This research and development cover, both software as well as hardware.

- ① Observation of cavitation in a double suction volute pump
- ② Noise measuring of low noise pump in an anechoic room
- ③ Model test of a pump intake for a seawater intake pump station
- ④ Sump model test for large capacity pumps



- ① Sand erosion test
- ② Stress measurement and analysis of a variable pitch vanes
- ③ Durable test of a vane control system of a variable pitch Mixed Flow Pump
- ④ Flow pattern model test of huge size pump



New Technology

Kubota's philosophy of creating environment-friendly technology has been spurred by our desire to make a contribution to society with our product lineup.

In the Pump Division, we have made continuous efforts to develop and produce state of the art pumps and pump plants.

Our innovative technology has been also adopted in mini-hydro power stations that utilize natural gravity water flow, in greenery projects in deserts to make them fertile granaries and in scenic utilities centering around fountains.

The study and adoption of computer technology has enabled us to make various in-house analyses of: computational fluid dynamics, stress, structure, and water hammer. Using the results of these analyses, we are improving the performance and liability of our products: a Plastic Liquefaction Plant (entirely new technology for reclaiming useful oil from waste plastics) is one example of such improvements.

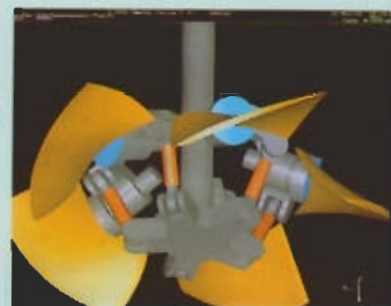
Here we will introduce some of our latest technologies.



Stress analysis of pump vane



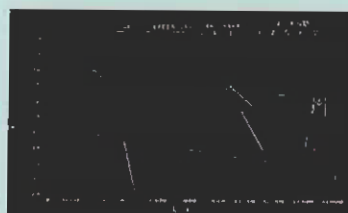
C.F.D.
(Computational Fluid Dynamics)
of pump suction channel



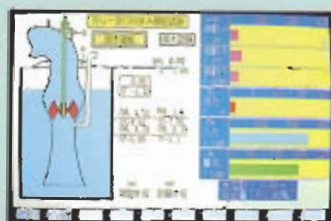
Vane motion analysis of variable
pitch vanes



Computer aided engineering system



Water hammer analysis



Computer-aided automatic
measuring system for pump operation



Plastic Liquefaction Plant (Model: KUBOTA KPY)
"Entirely new technology for reclaiming useful
oil from waste plastics"

City Water Supply

Kubota, Japan's leader in designing, engineering and constructing water supply systems, undertakes projects on a world-wide basis. Kubota's services are all inclusive from technical and management consultations to production of pumps and completion of total pumping stations. Kubota's decades of experience and resulting expertise in this field are the vital factors to ensure completion of the projects in a minimum of time at a reasonable cost.



1. Bang Khen Transmission Pumping Station Metropolitan Water Works Authority, Bangkok, Thailand

Model : DV-L
Bore : 1350 x 1100mm
Capacity : 300m³/min
Total Head : 32m
Motor Output : 2580kW

2. Harbour Island Pumping Station Water Supplies Department, Hong Kong

Model : SV-VF
Bore : 800 x 700mm
Capacity : 158m³/min
Total Head : 47m
Motor Output : 1700kW

3. Jakarta Water Supply Project (Buaran II), Indonesia

Model : DV-L
Bore : 700 x 500mm
Capacity : 90m³/min
Total Head : 56m
Motor Output : 1200kW

4. Kameido Pumping Station Tokyo Metropolitan Water Works Bureau, Tokyo, Japan

Model : SV-VF
Bore : 1350 x 1000mm
Capacity : 254m³/min
Total Head : 49m
Motor Output : 2650kW



Industrial Water Supply

Kubota pumps have been contributing to the growth of Japanese industry by supplying water from the sea, underground, lakes, ponds, rivers and reservoirs, for industrial purposes. Whatever the water sources are, Kubota has been successful in providing the most efficient and most reliable water supply equipment and systems.

1. Sea Water Cooling System Pumping Plants Shuaiba Area Authority, Kuwait

Model	: DF-VP	DF-VP
Bore	: 1400mm	1400mm
Capacity	: 323.5m ³ /min	304.2m ³ /min
Total Head	: 27.8m	26.6m
Motor Output	: 2380kW	2240kW

2. Sea Water Intake Pumping Station Ras Abu Fontas, Qatar

Model	: DF-VA
Bore	: 1000mm
Capacity	: 163.3m ³ /min
Total Head	: 35m
Motor Output	: 1300kW

3. Fuji River Transmision Pumping Station Shizuoka Pref., Japan

Model	: DV-L
Bore	: 1200 x 800mm
Capacity	: 202m ³ /min
Total Head	: 70m
Motor Output	: 3100kW

4. Cooling Water Pumps Ube Industries Ltd., Sakai Works, Osaka, Japan

Model	: DV-L
Bore	: 700 x 500mm
Capacity	: 70m ³ /min
Total Head	: 46m
Motor Output	: 660kW



Power Plant

As the demand for electric power increases, thermal power plants are being built in greater numbers and on a larger scale, thus increasing the importance of our pumps.

Kubota's technology and products have been helped in the efficient and trouble free operation of thermal power plants both in Japan and overseas.

Among the pumps in use at those power stations, Kubota has established its name in circulating water pumps.

Kubota's circulating water pumps offer best efficiency and most dependable operation with a variety of pump construction and materials to best suit the particular application based on proven technology through many years of world wide experience.

1. Circulating Water Pumps

Queensland Electricity Generating Board,
Australia

Model : DVL
Bore : 1400 × 1200mm
Capacity : 288m³/min
Total Head : 23m
Motor Output : 1350kW

2. Sea Water Circulating Pumps

Gusikawa Thermal Power Plant
Okinawa Pref., Japan

Model : DF-VK
Bore : 1200mm
Capacity : 240m³/min
Total Head : 17.6m
Motor Output : 1110kW

3. Sea Water Circulating Pumps

Ohaaki Geothermal Power Plant
New Zealand

Model	: DV-L	DV-L
Bore	: 800 × 900mm	900 × 900mm
Capacity	: 171 m ³ /min	171 m ³ /min
Total Head	: 25.9m	26m
Motor Output	: 940kW	940kW

4. Port-klang Power Station (Phase I)

Port-klang, Malaysia

Model : DF-V
Bore : 1600mm
Capacity : 300m³/min
Total Head : 16.7m
Motor Output : 1100kW



Steel Mill

Kubota is one of the leading suppliers of pumps to major steel mills where Kubota pumps play a vital role in helping to maintain and upgrade the world's leading steel work technology.

Kubota pumps are in use in blast furnace, converters, electric furnaces, reheating furnaces, hot strip mills, heat treating furnaces, cold strip mills, etc.

1. Cooling Water Circulating Pumps

Sin Nippon Steel Corp., Ohita Works, Japan

Model	: DV-L	DV-L
Bore	: 500 x 300mm	500 x 300mm
Capacity	: 35m ³ /min	30m ³ /min
Total Head	: 100m	90m
Motor Output	: 750kW	630kW

2. Cooling Water Circulating Pumps

Kawasaki Steel Corp., Chiba Works, Japan

Model	: DV-L
Bore	: 500 x 400mm
Capacity	: 34m ³ /min
Total Head	: 40m
Motor Output	: 290kW

3. Cooling Water Pumps

Baoshan Steel Works, Shanghai, Republic of China

Model	: DM-V	DV-L
Bore	: 300 x 200mm	600 x 350mm
Capacity	: 11m ³ /min	37m ³ /min
Total Head	: 160m	65m
Motor Output	: 450kW	560kW



Desalination Plant

Kubota, a pioneer in water equipment and facilities, has played an important role in producing distillate by supplying various pumps for desalination plants, which incorporate many advanced technologies both in mechanical engineering and metallurgy. Pumps are crucial in desalination plants. The plant efficiency is greatly influenced by pump operating characteristics such as total performance, suction performance, durability, reliability, etc.

Such operating characteristics are fully satisfied by Kubota pumps, which has been proven throughout many years of experience in this field.

1. Sea Water Recirculating Pumps Um Al Nar West Desalination Plant (4mgd x 6) Abu Dhabi, UAE

Model : DV-L
Bore : 900 x 750mm
Capacity : 127.59m³/min
Total Head : 22m
Motor Output : 660kW

2. Brine Recirculating Pumps Um Al Nar West Desalination Plant (4mgd x 6) Abu Dhabi, UAE

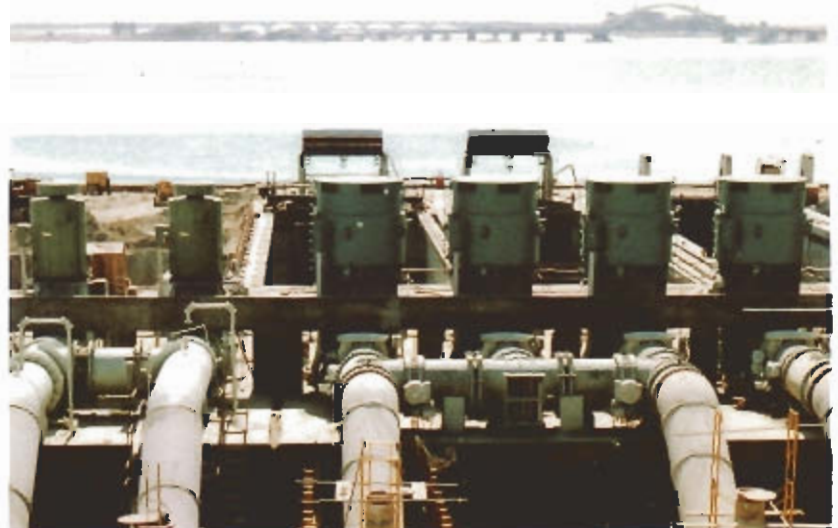
Model : DF-VB
Bore : 1100mm
Capacity : 204.28m³/min
Total Head : 67.5m
Motor Output : 2740kW

3. Al-Jubeil Desalination Plant Phase II Saudi Arabia

Model : DV-L	DF-VB
Bore : 900 x 750mm	500mm
Capacity : 108.3m ³ /min	37.1m ³ /min
Total Head : 26m	20m
Motor Output : 570kW	190kW



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Flood Control

Typhoons of devastating magnitude which bring waterways to high water levels within a short period of time impose heavy duty on drainage pumps. Dependability in operation is the most important factor. Kubota's reliable flood control pumps together with their heavy duty diesel engines are widely used throughout these areas.

1. Siotagawa Drainage Pump Station Ube City, Yamaguchi Pref., Japan

Model : SP-V
Bore : 1200mm
Capacity : 210m³/min
Total Head : 2.8m
Gas Turbine : 230ps

2. Bera Pumping Station, Pabna, Bangladesh

Model : DF-VO
Bore : 2400mm
Capacity : 850m³/min
Total Head : 8.23m
Motor Output : 1600kW

3. Kitahama-river Drainage Pump Station Aichi Pref.

Model : SP
Bore : 2000mm
Capacity : 480m³/min
Total Head : 2.8m
Motor Output : 580hp

4. Mama-river Drainage Pump Station

Model : DF-VO
Bore : 2800mm
Capacity : 1050m³/min
Total Head : 3.9m
Engine Output : 1400ps



Sewage Treatment Plant

Involvement of Kubota in environmental control is outstanding, not only as the supplier of pumps, valves and pipes but as a designer and contractor of total environmental control systems and facilities. Kubota pumps supported by the extensive technology and experience in this field have helped continuous construction and refurbishment of the sewer systems to improve the living environment throughout the world.

1. Effluent Pumps, Taipei City Sewage Treatment Plant, Taiwan

Model : DF-VQ
Bore : 600mm
Capacity : 75m³/min
Total Head : 9.8m
Motor Output : 220kW



1

2. Fushimi Sewage Pump Station, Kyoto, Japan

Model : DS-VV
Bore : 1200 × 1100mm
Capacity : 180m³/min
Total Head : 12.8m
Motor Output : 600kW



2

3. Gao Beiden Sewage Treatment Plant, Beijing, Republic of China

Model : DS-VV
Bore : 1000mm
Capacity : 180m³/min
Total Head : 15m
Motor Output : 600kW



3

Irrigation

There has been a rapid increase in projects for supplying water for agricultural use to turn vast uncultivated areas into water rich agricultural land.

To meet such increased demand, Kubota's irrigation specialists have helped with the materialization of the overseas irrigation projects from feasibility study to turn key completion.

Kubota's technology in pumping equipment and systems has played a vital role in its total irrigation systems.

1. Floating Pump Stations In Upper Egypt Arab Republic of Egypt

Model : DV-L
Bore : 500 x 450mm
Capacity : 30m³/min
Total Head : 12m
Motor Output : 80kW

2. Namoon Pump Station, Royal Irrigation Department, Thailand

Model : DF-S
Bore : 500mm
Capacity : 36m³/min
Total Head : 35.5m
Motor Output : 260kW

3. MIAN AB Cane Sugar Agro-Industry Project, Iran

Model	: DF-V	DF-V
Bore	: 1100mm	1100mm
Capacity	: 198m ³ /min	198m ³ /min
Total Head	: 25m	11m
Engine Output	: 1350kW	510kW

4. Right-bank of Sinano-river Pump Station, Hokuriku Agriculture Bureau, Japan

Model : DV-L
Bore : 900mm
Capacity : 100.52m³/min
Total Head : 22.7m
Motor Output : 470kW



District Heating and Cooling

In our society, where cultural development has attained a certain sophistication, social demands for amenities have become higher than ever. Due to wide scale urbanization and the redevelopment of our cities, people tend to spend most of the day, including their business hours, in their local cities.

To meet the demands of today's society, a district heating and cooling system is desired to achieve the optimal equilibrium of the energy supply required for both living and business. Pumps, vital to the water circulation systems that control the heat energy supply of air conditioning systems, must have high durability and reliability. You can find such pumps, suitable for a district heating and cooling systems, in Kubota's wide lineup.

- ① Water circulation pumps for cooling water
Sun-shine City Building, Tokyo, Japan
- ② ③ Water supply pumps for chiller and
fire fighting pumps
Hotel New-Ohtani, Osaka, Japan
- ④ Water circulation pumps for cooling water
New Tokyo International Air-port Bld.,
Narita, Japan



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Mini-Hydro Power Station

An electricity supply is one of the strongest demands among people living in non-electrified areas such as mountainous regions.

Our energy consumption problem must be studied. To save the environment, we need, on a global scale, to shift energy sources from fossil fuels to other sources while continuing to meet present demands.

Kubota's cross-flow type hydro turbines and our reverse running pump turbines have been developed to utilize natural gravity water flow or excess water, so far wasted, as water energy. "Dummy Load Governors" control the mini-hydro power stations that have adopted these turbines, realizing easy operation of the power stations.

Mini-hydro power stations have already been installed and are in operation, and have a good reputation in; Bhutan, Guatemala, Pakistan, Peru, Vanuatu and Vietnam.

1. Takeyama Hydraulic Power Station, Kagoshima, Japan

Model : KC-FT (Cross flow type hydro turbine)
Effective Head : 46.3m
Flow Rate : 0.6m³/s
Turbine Output : 210kVA

2. Odairanuma Hydraulic Power Station Fukushima, Japan

Model : Francis Turbine
Effective Head : 46.2m
Flow Rate : 1.6m³/s
Turbine Output : 615kW

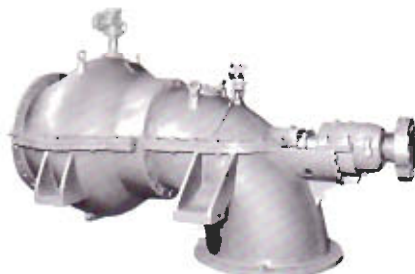
3. Yaso Hydraulic Power Station, Peru

Model : DV-L (Reverse running pump turbine)
Effective Head : 22m
Flow Rate : 0.6m³/s
Turbine Output : 80kW



Model DF · Horizontal Shaft Mixed Flow Pump

Bore : 200 ~ 2500mm
Capacity : 4 ~ 900m³/min
Total Head : 3 ~ 10m
Applications: Irrigation
Flood control
Sewage treatment



Model DF-VK · Variable Pitch Vertical Shaft Mixed Flow Pump

Bore : 300 ~ 4200mm
Capacity : 8 ~ 2700m³/min
Total Head : 3 ~ 40m
Applications: Water works
Water intake
Irrigation
Flood control
Power plant
Sewage treatment
Desalination plant



Model DF-V · Vertical Shaft Mixed Flow Pump

Bore : 200 ~ 4200mm
Capacity : 4 ~ 2700m³/min
Total Head : 5 ~ 150m
Applications: Water works
Water intake
Irrigation
Flood control
Sewage treatment
Power plant
Fire fighting
Desalination plant



Model DF-VP · Vertical Shaft Pull-out Type Mixed Flow Pump

Bore : 1000 ~ 4200mm
Capacity : 100 ~ 2700m³/min
Total Head : 5.6 ~ 85m
Applications: Water works
Water intake
Irrigation
Flood control
Power plant



Model DF-S · Inclined Shaft Mixed Flow Pump

Bore : 200 ~ 2500mm
Capacity : 4 ~ 900m³/min
Total Head : 4 ~ 50m
Applications: Irrigation
Flood control
Water intake



Model DF-DV · Vertical Shaft Wet Type Double Suction Volute Pump

Bore : 200 ~ 1500mm
Capacity : 2.6 ~ 350m³/min
Total Head : 20 ~ 100m
Applications: Power plant
Water intake
Desalination plant



Model SP · Axial Flow Pump

Bore : 300 ~ 2500mm
Capacity : 7 ~ 900m³/min
Total Head : 1 ~ 5m
Applications: Irrigation
Flood control
Sewage treatment
Dockyard drainage



Model SP-V · Vertical Shaft Axial Flow Pump

Bore : 200 ~ 4600mm
Capacity : 4 ~ 3000m³/min
Total Head : 1 ~ 5m
Applications: Irrigation
Flood control
Water intake
Sewage treatment
Power plant
Desalination plant



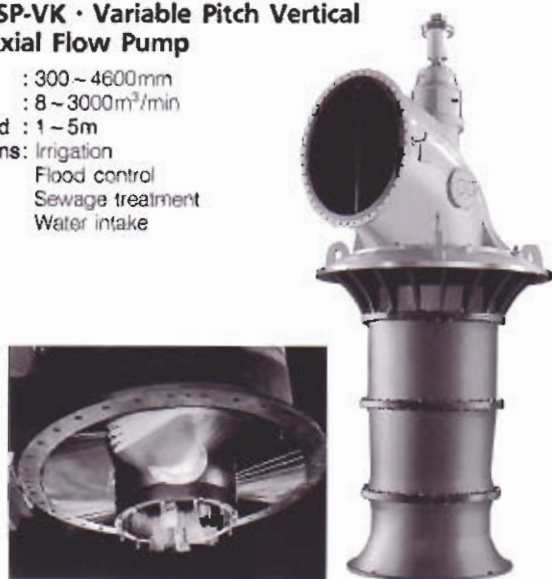
Model SP-S · Inclined Shaft Axial Flow Pump

Bore : 200 ~ 2500mm
Capacity : 4 ~ 900m³/min
Total Head : 1 ~ 5m
Applications: Irrigation
Flood control
Water intake



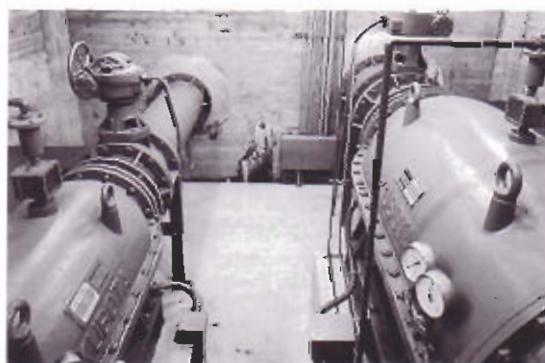
Model SP-VK · Variable Pitch Vertical Shaft Axial Flow Pump

Bore : 300 ~ 4600mm
Capacity : 8 ~ 3000m³/min
Total Head : 1 ~ 5m
Applications: Irrigation
Flood control
Sewage treatment
Water intake



Model TD-F · Inlined Tubular Mixed Flow Pump

Bore : 500 ~ 4200mm
Capacity : 30 ~ 2700m³/min
Total Head : 4 ~ 15m
Applications: Irrigation
Flood control
Water intake



Model TS-P · Inlined Tubular Axial Flow Pump

Bore : 500 ~ 4600mm
Capacity : 30 ~ 3000m³/min
Total Head : 1 ~ 5m
Applications: Irrigation
Flood control
Water intake



Model DV-L · Double Suction Volute Pump

Bore : 200 ~ 1800mm
Capacity : 3 ~ 500m³/min
Total Head : 5 ~ 200m
Applications: Water works
Cooling water
Irrigation
Power plant
Fire fighting
Desalination plant



Model DS-V · Volute Type Mixed Flow Pump

Bore : 200 ~ 800mm
Capacity : 3 ~ 90m³/min
Total Head : 3 ~ 15m
Applications: Irrigation
Sewage treatment



Model DV-LV · Vertical Shaft Double Suction Volute Pump

Bore : 200 ~ 1800mm
Capacity : 3 ~ 500m³/min
Total Head : 10 ~ 110m
Applications: Water works
Cooling water
Irrigation
Fire fighting
Desalination plant



Model DS-VV · Vertical Shaft Volute Type Mixed Flow Pump

Bore : 300 ~ 4600mm
Capacity : 10 ~ 3000m³/min
Total Head : 3 ~ 20m
Applications: Irrigation
Sewage treatment
Flood control
Water intake



Model DM-V · Multi Stage Double Suction Volute Pump

Bore : 200 ~ 500mm
Capacity : 3 ~ 35m³/min
Total Head : 70 ~ 250m
Applications: Water works
Cooling water
Irrigation, Fire fighting
Desalination plant



Model SV-VF · Vertical Shaft Single Suction Volute Pump

Bore : 200 ~ 3000mm
Capacity : 4 ~ 1300m³/min
Total Head : 10 ~ 150m
Applications: Water works, Cooling water, Irrigation





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or One of the above Overseas Offices
E-Mail: pump@kubota.co.jp.
<http://www.kubota.co.jp/english>

KUBOTA reserves the right to change the design,
technical specification and dimensions without prior notice.