



Water Technologies & Engineering

Pump Systems Project Engineering & Consulting
Water Technologies Product Supply
International Trading

www.letrawater.com



25 Years of Experience
water technologies

About Us

Your global partner in water technologies, "Letra A.S."

LETRA Water Technologies and Engineering is a global partnership company that provides engineering, consultancy, project design and product supply for pump systems.

Letra A.S. is a strong solution partner in the process of consulting, choosing the right product, product supply and commissioning them in fluid pump systems for industrial, agricultural and drinking water supply systems especially for Borehole Submersible Pumps and Motors , Vertical Turbine Pumps & Geothermal Pumps.

The founders of Letra A.S., Mechanical Engineer Ersan AKSEN and Electrical Engineer Serkan VAROL has brought innovations to the sector with their 25 years of experience and has completed many successful pump projects.

Letra A.S. provides consultancy and engineering services to select high efficiency pumps in the most accurate way. With a detailed feasibility study and makes reporting by evaluating

result of feasibility studies with scientific methodologies. Furthermore, identifies suitable instruments according to actual needs. In addition to that, provides the budgeting of project by performing investment/benefit analysis. Cooperates in obtaining the system requirements from the "most correct" supplier. Taking an active role in all processes, for correct budgeting.

Letra A.S., established in Turkey / Izmir as a project consultancy and engineering company for pump systems and become a global company that also provides best quality product to the whole world by undertaking the representation and dealership of many brands. Whether you want to get information about your pump systems needs or you need a reliable partners for a reliable products, you can always consult us.

We Provide Pumps and Motors to the whole World...

With its wide product range in water technologies, especially submersible pumps and motors, Letra A.S. exports to every part of the world. We are always at your disposal with our experienced sales team and with our partnerships in many countries, especially the Middle East, North Africa and Europe.

Arctic Ocean

Pacific Ocean

North America

Europe

Serbia
Italy
Spain
Ukraine
Poland
Germany
Bosnia & Herzegovina
Romania
Russia
Greece
Denmark
And Others...

Asia

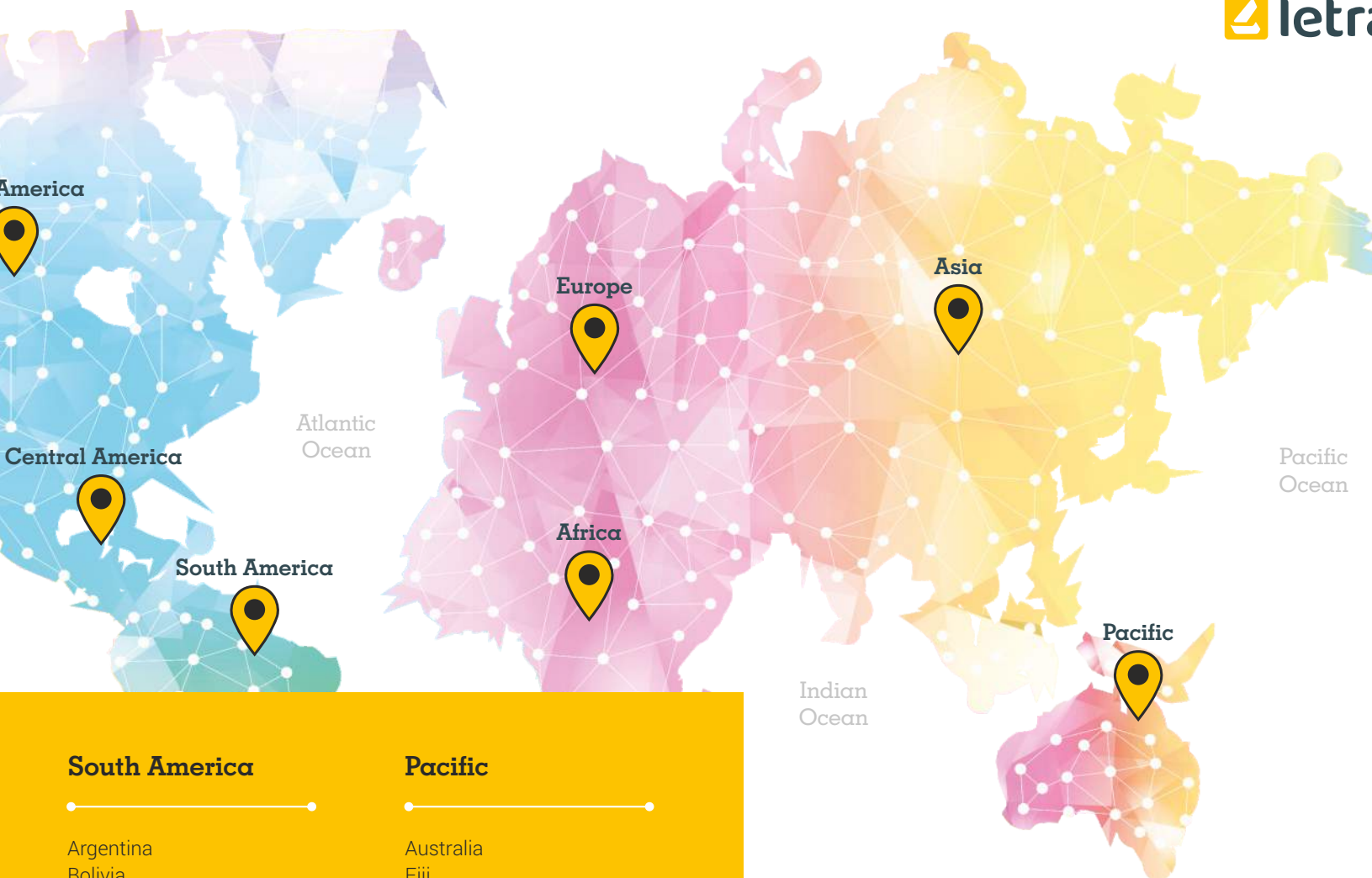
Jordan
China
Uzbekistan
Iraq
Israel
Lebanon
Indonesia
Yemen
Sudan
Saudi Arabia
United Arab Emirates
And Others...

Africa

Algeria
Egypt
Ethiopia
Tanzania
Kenya
Libya
Morocco
South Africa
Sudan
Tunisia
Mozambique
And Others...

North & Central America

Canada
United States of America
Mexico
Dominican Republic
Cuba
Trinidad & Tobago
Guatemala
Costa Rica
Honduras
Panama
Nicaragua
And Others...



South America

Argentina
Bolivia
Brazil
Chile
Colombia
Ecuador
Guyana
Paraguay
Peru
Suriname
Uruguay
Venezuela

Pacific

Australia
Fiji
Kiribati
Nauru
New Zealand
Palau
Papua New Guinea
Samoa
Solomon Islands
Tonga
Tuvalu
And Others...

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Special Project Services

Project Engineering & Consulting

consulting

Efficiency Analysis of Pump Stations and Project Consultancy

We provide engineering, consultancy, efficiency analyzes and reporting for existing pump stations or newly planned pump stations,



geothermal

Project, Product Supply and Services for Geothermal Pump Stations

We are specialist company and successfully carry out , product supply, installation, maintenance and repair for Geothermal power plant , re-injection and transfer pumps for City and Greenhouse heating plants,

product supply

Turnkey Project Management , Pump , Motor and Equipment Supply for Special Projects

With our representatives, dealerships and wide supply network, we supply pumps and motors as well as other electromechanical equipments for public, industrial and agricultural drinking water facilities. We are an active organization that monitors the production steps , testing, compliance with the project and acceptance stages of these equipments.



production

High Capacity Pump Production for Special Applications

Letra A.S undertakes the design and manufacture of vertical turbine pumps, axial pumps, geothermal pumps, double suction pumps, centrifugal pumps and special purpose pumps in accordance with the project needs.



Process Management

We work like your department for your projects!

Whether you are an organization looking for a solution for your own private business anywhere in the world, or a contractor preparing for a tender...

We work like your department in all processes from the idea stage to the commissioning of the pump station, and we put great effort into perfection.

We provide engineering and consultancy services to institutions and organizations for all areas where the pump is used for water supply from sources. Pump Stations , geothermal power plants , Water basins, underground sources, stream-river beds etc

If you want to work with a professional team in the business processes of your tender or project, you can contact us for partnership. You can be sure that we will offer the most appropriate solutions by evaluating your product and service requests in detail regarding your project.

We undertake all processes such as the selection of the right pump, motor and electromechanical equipments for your projects, their supply in the best conditions, production control and follow-up, assembly of the entire system, commissioning, and conducting relations with the manufacturer as if it is our own business.

We work in absolute harmony with our customers at every stage of the projects we work on, report and inform at every stage, and work with all our strength to operate the process flawlessly with the feedback and evaluations received.

1

Feasibility and Analysis

Before starting a project, it is essential for us to make a feasibility study and analysis in details with modern engineering methodologies and many years of experience in the sector.

The specifications determined by the administration or your projects created according to the special needs of your organization will be examined in details by our engineering team.

Letra A.S. engineering team can evaluate the design results before production with special software and simulation programs. We make efficiency analysis with computer aided fluid dynamics software. This offers advantages and speed for the production of high efficiency pumps. Seeing the problems and needs before production also allows to prevent many possible errors that may occur.

**2**

Solutions and Budgeting

Alternative solution are created for your project according to your inquiries, analysis and feasibility results. Selection of pumps, motors and other equipment, which will be produced from suitable materials according to inquiries with the most accurate technical features.

Other products required for the project such as valves, disassembly parts, check valves, flow meters, pipes, air boilers , filters , etc are also determined. Pump station layout plans are drawn. A project file is created by reporting all results and submitted to the customer approval together with budgeting of the Project.

Production plans starts with customer approval. The project is started by creating the business processes, task distribution and work flow diagram and proceeding to the supply and production process.

3

Supply and Services

Participates in all processes between the pump manufacturer and the customer. Necessary agreements are made. Detailed planning is made for the project stages.

All necessary controls are made during the manufacturing stages. The performance test of the pump and motor is carried out and system efficiency is measured. Compliance to the project and specification is checked.

Transfer of materials to the project area, installation and assembly phases are managed. Commissioning is supervised. Participation in on-site acceptance tests. After the final step of the of the project, documentation consultancy is provided regarding the terms of use. Relevant personnel are provided with necessary training. Repair and maintenance services are offered when necessary.

High-Capacity Special Pumps

Selection, supply and production of pumps according to inquiries...



We offer special pump solutions for projects related to water supply and/or to water with many different physical and chemical properties. We supply pumps, motors and other necessary equipments according to the project requirements with the requested technical specifications, capacity and material properties. We ensure that they are produced in accordance with the project, and we carry out all processes such as shipment, assembly and commissioning on a turnkey basis.

Vertical Turbine Pumps

Letra A.S. is a supplier for Vertical Turbine Pumps and Axial Flow Turbine Pumps for high flow requirements at requested pressures. We offer turnkey or partial services in all processes from pump selection to commissioning. According to project we work in details with our engineering team to make selection for most suitable pump and prepare pump station layout plan. We report benefit analysis and elements that will provide improvement for

the project to the customer. Together with pump supply, we also provide mechanical equipments for pump station , follow-up the manufacturing processes at the manufacturer plant , testing according to the standards, assembly and commissioning on behalf of the customer. We do consultancy and reporting for necessary field tests before the delegation visit for the acceptance tests to finalize acceptance without any problems.



Geothermal Pumps

Letra A.S. is an specialized organization in geothermal pump stations used in places such as greenhouse heating systems, city heating, touristic facilities and especially in power generation plants. We provide consultancy, engineering and product supply for re-injection pumps, downhole production pumps, wellhead pressurization pumps, brine transfer pumps. We also perform testing, repair and maintenance of existing pumps.

The selection of correct pumps for projects is very important in terms of energy saving, cost, efficiency and long life. You can get support from our experienced staff on pump selection. Letra A.S. in addition to product supply for selected pump, also makes controls; also provides consultancy and partnership services for correct determination of the requests between the customer and the manufacturer and prepares agreements according to conditions.

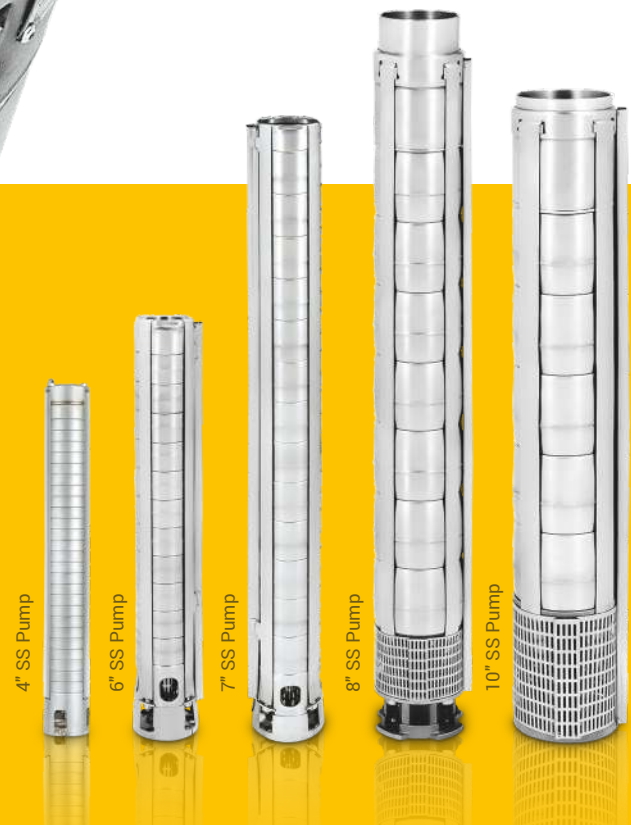


Double Suction Pumps

We provide consultancy, selection and supply of double suction pumps, which are often used in intermediate pumping stations, water intake structures from rivers or dams,

We provide turnkey consultancy and engineering services at all stages from ordering the double suction pumps with most correct way, control of the manufacturing stages at the manufacturer, factory acceptance tests, delivery to site, assembly, field tests, accompany the acceptance committees.

You can consult our experienced team for the supply of double suction pumps according to the requested technical specifications and material specifications.



Stainless Steel Submersible Pumps

4" / 6" / 7" / 8" / 10"

Letra A.S. is a specialized organization for submersible pumps which is mainly used for agricultural irrigation, domestic water supply, industrial applications,

We export completely stainless steel (AISI 304L or AISI 316) submersible pumps all over the world. In addition to offering the brands that we represent; we can also offer special productions for your brand.

We provide special solutions for stainless steel submersible pumps specially used for agricultural irrigation, residences, industrial enterprises, domestic water supply, mine dewatering and

firefighting systems. Upon request, our wide product range includes cast stainless steel submersible pumps, pumps with pressure jacket, tandem pumps, pumps for solar systems, high temperatures such as geothermal pumps and many different pumps.

Wherever you are in the world, whatever submersible pump system you need, Letra A.S. always with you with its strong engineering and international sales capability.

APPLICATIONS:

- Agricultural irrigation
- Drinking water supply
- Industrial plants
- Water supply from boreholes
- Pressurization applications
- Mining
- Sprinklers

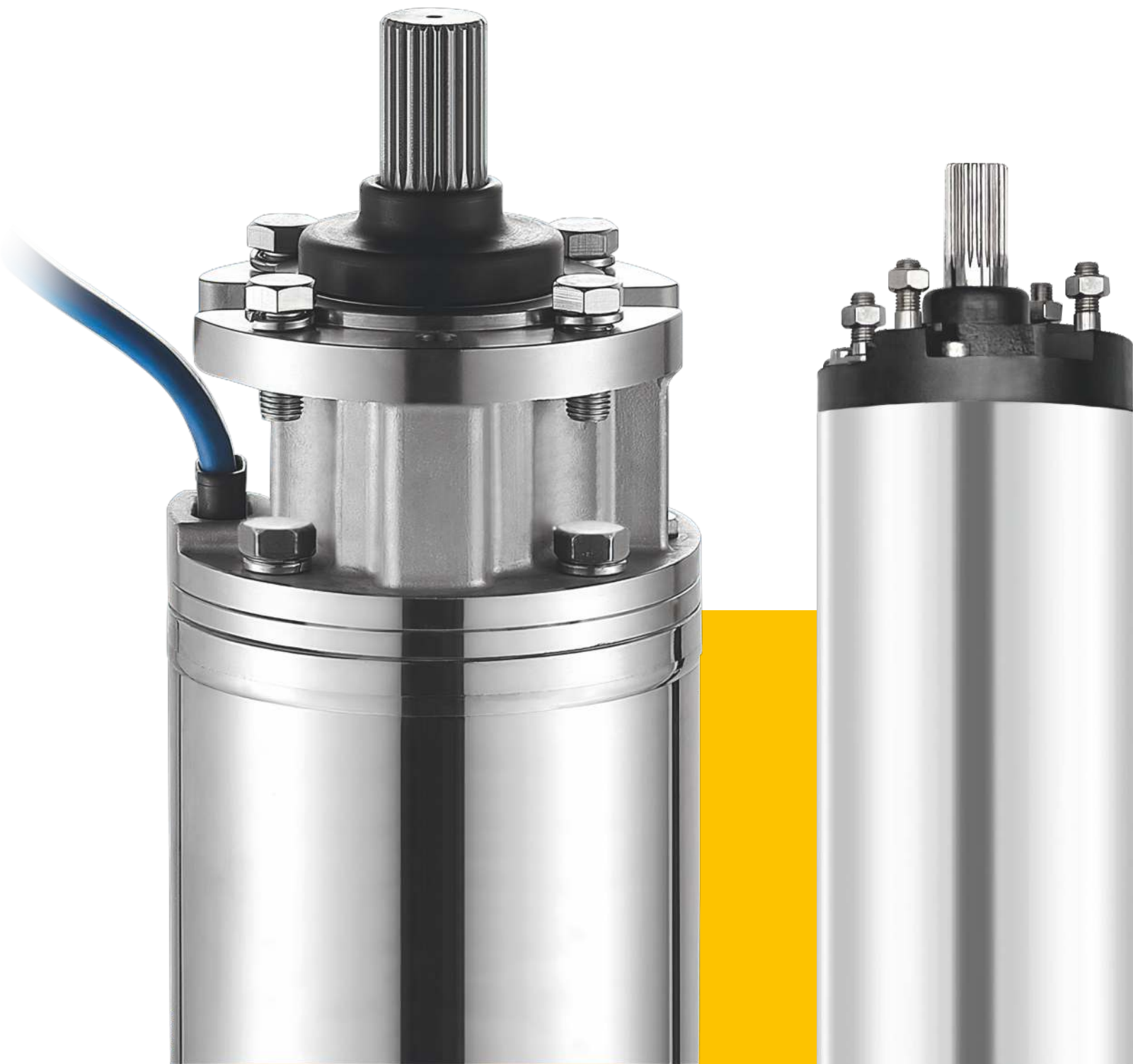
GENERAL FEATURES:

- Complete stainless steel (AISI 304 - AISI 316)
- Long life, high durability, high efficiency,
- Easy installation, assembly and service
- NEMA standards
- Hydrostatic pressure test (Optional)
- 50Hz and 60Hz options
- Internationally valid certified products

TECHNICAL FEATURES:

Dimensions	4" - 6" - 7" - 8" - 10"
Capacity	1 m³/h - 250 m³/h
Head	Up to 700 meter
Direction of Rotation	CCW
Allowable Max. Sand Qty.	50 gr/m³





Submersible Motors

6" / 7" / 8" / 10"

Letra A.S., which exports submersible motors all over the world, is at your service with fast delivery from stock, reasonable and stable price policy and wide product range.

We export 6" / 7" / 8" / 10" water cooled, rewindable submersible motors from 5.5 HP to 300 HP, to all over the world. We are able to offer the products of the brands that we represent, with fast delivery from stock. In addition, we can supply customized products according to your needs with special manufacturing.

Letra A.S. is a specialized company for submersible motor industry. Our engineering team has served for more than 25 years in

submersible motor manufacturing to bring quality to perfection. Today, we reflect this experience and knowledge of many years to our valued customers as the right product, time and cost.

For this reason, Letra A.S. besides being a professional company that sells submersible motors; is a strong solution partner that offers consultancy and engineering, and takes maximum care to provide the right products to its customers with a reasonable price.

APPLICATIONS:

- Agricultural irrigation
- Drinking water supply
- Industrial plants
- Water supply from boreholes
- Pressurization applications
- Mining
- Sprinklers

GENERAL FEATURES:

- High quality winding wire and long life
- Lifetime energy savings with high efficiency
- Water cooled system
- Suitable to works with VFD & Soft Starter
- Customized production and material options
- NEMA standards
- Internationally valid certified products

TECHNICAL FEATURES:

Dimensions	6" - 7" - 8"- 10"
Voltage	3 x 220/380/460/525V
Frequency	50 / 60Hz
Max. Power	5,5 to 300 Hp
Max. Water Temperature	50°C (70°C is optional)
Working Position	Vertical / Horizontal
Direction of Rotation	CW / CCW





4" Submersible Pumps & Motors

Noryl Impeller Pumps / Oil Lubricated & Cooled Motors

Today, the importance of energy consumption is increasing day by day. It is now much more important to consider the operating costs, investment costs and evaluate the lifetime cost of the pump plants

Our 4" submersible pumps and 4" submersible motors are produced in world standards. Connections are in NEMA standard and bodies are AISI 304 stainless steel. Our 4" motor are oil lubricated and cooled, do not require periodic maintenance, are durable and long lasting. 4" multistage submersible pumps for water supply from deep wells for agricultural irrigation, industrial facilities, etc., are frequently preferred pump solution because they are easy, trouble-

free and economical.

Choosing the right pump has a huge impact on power consumption. You can get support from our experienced sales and engineering team in your pump selections for long life and lasting performance. We will be happy to assist you in choosing the right pump for high efficiency.



APPLICATIONS:

- Agricultural irrigation
- Drinking water supply
- Industrial plants
- Water supply from boreholes
- Pressurization applications
- Mining
- Sprinklers

GENERAL FEATURES:

- High efficiency, long life
- Low operating cost
- Oil cooled system
- NEMA standards
- Stainless body and shaft
- Allowable Maximum Sand Content 50g / m³
- Ready to use with solar systems
- Easy installation and service

TECHNICAL FEATURES:

Dimensions	4"
Voltage	220/380/460V (±%10)
Frequency	50 / 60Hz
Power	0.37kW - 7.5kW
Max. Water Temperature	30°C
Working Position	Vertical / Horizontal
Direction of Rotation	CW / CCW
Protection/Insulation Class	IP68 / F



Vertical Multistage In-Line Pumps

Highly efficient, long life, reliable solutions for pressurization applications...

The most ideal solution to be used in places where the water pressure is insufficient or unstable is the vertical multistage booster pumps. Whether as a single pump motor or as a pump set, you can be sure that we have a product suitable for you among our wide range of pumps. You can get support from our professional team for pump selection.

Vertical multistage booster pumps have a wide range of applications. One pump solves the problem of multiple water sources. It is designed to provide solutions for pressurizing water for industrial facilities, high buildings, water treatment systems, cooling systems, fire fighting systems, booster systems.

Vertical Shaft In-line pumps can be placed on the same axis and connected directly on a single pipeline thanks to common suction and outlet flanges. With this feature, it provides a compact installation and pump system. Vertical Multistage Pump bearings are water lubricated special design.

APPLICATIONS:

- Industrial plants
- High buildings
- Water treatment systems
- Cooling systems
- Fire fighting systems
- Booster systems
- Hospitals

GENERAL FEATURES:

- Low energy consumption
- Reliable and durable
- High efficiency (IE3-IE5) motor
- Compatible to work with variable speed smart systems
- Quiet operation, long life
- SS304 & SS316 Material options
- Compliant with international standards
- Wide product range

TECHNICAL FEATURES:

On / Off	Closed type
Voltage	1x220-240V 3x220-240/380-415V Single phase motors (0,37kW-2.2kW)
Frequency	50Hz & 60 Hz
Capacity	1 m³/h to 200 m³/h
Max. Water temperature	20 C° to 120 C°
Protection Class	IP55
Insulation Class	F Insulation Class
Direction of Rotation	Rotation (CW / CCW)
Working Position	Horizontal



The power of

Long Life

High Efficiency

Lower Costs

engineering and technology

Electric Motors

Low / Medium / High Voltage Induction Motors



We offer a wide range of electric motor product solutions from 0.12kW to 10,000kW. You can contact us for our sales and engineering services.

We supply low voltage, medium voltage motors and special production electric motors for industrial facilities.

Ietra A.S has authorized dealerships, for low voltage electric motors from 0.12kW-355kW power range, with IE2/IE3 and IE4 efficiency classes, as well as special mechanical construction (special shaft, special cover, etc.)

and electrical design features (special voltage / frequency, special power, etc.) motors.

In addition to standard low voltage electric motors; We also supply medium voltage motors up to 1,600kW and high voltage electric motors up to 10,000kW at 3kV, 6kV, 10kV, 13.8kV voltage levels



0.18kW - 2.2kW

Single Phase, Low Voltage, Closed Type Asynchronous Motor

- 0.18kW - 2.2kW
- 63 - 100 aluminum body
- Permanent capacitor/permanent&starting capacitor
- 2, 4, 6 and 8 poles
- Special voltage / frequency (110V / 160Hz. etc.)
- Special shaft, special flange, paint etc.



0.18kW - 400kW

Three Phase, Low Voltage Closed Type Asynchronous Motor

- 0.18kW - 400kW
- 63 - 355 cast iron body
- IE4 / IE3 / IE2 / IE1 efficiency class
- 2,4,6,8,10 and 12 poles
- F insulation class (H optional)
- Special voltage / freq. (380V / 60Hz etc.)
- Dual-speed, dual-voltage special motors
- Special shaft, special flange, paint etc.



400kW - 1500kW

Three Phase, Low Voltage Closed Type High Powers Asynchronous Motor

- 400kW - 1500kW
- 355 - 560 cast iron body
- 2, 4, 6, 8, 10 and 12 poles
- PT100 in windings and bearings
- With insulated bearing
- F insulation class (H optional)
- Special voltage / freq. (380V / 60Hz etc.)
- Dual-speed, dual-voltage special motor

Other Products

You can consult us for any product related to water technologies.



PRECISION CASTING STAINLESS PUMPS

Types:

6"-8"-10"-12"

Capacity:

20 m³/h to 325 m³/h

Head:

Up to 650 meter

General Features:

- AISI 304 precision casting
- Long life, high efficiency
- Suitable for working in aggressive waters
- NEMA standards
- International valid certificate



EXPANSION TANKS

General Information:

Please ask for inquiry about our expansion tanks for all kinds of irrigation pumps, deep well & centrifugal pumps, booster sets and applications against water shock, as well as for hygiene-important application needs with the stainless body option.

General Features:

- Wide product range (2-10.000 lt)
- Fixed and Replaceable diaphragm
- Stainless body option
- 100% Italian membrane (NBR, SBR, EPDM, BUTYL)



POWER CABLE AND WINDING WIRE

Power Cables

- Power cables for submersible pump systems
- PVC, rubber / flat, round / flexible
- Up to 1000 Volts
- Compliant to international standards

Winding Wire

- Winding wire for submersible motors
- PVC or PP insulated winding wires
- High temp. Double insulated winding wires



CONTROL PANELS

- Pump control panels
- Direct online / Single phase / 3 phase panels
- Star / delta control panels
- Soft starter control panels
- Frequency converter control panels
- Remote controlled smart panels



COLUMN PIPES

Products Types:

- uPVC column pipes
- Steel column pipes
- Galvanized column pipes
- High resistance to chemicals.

General Features:

- Specially designed for submersible pumps
- High tensile load carrying capacity
- 100% tightness at high pressures
- Flanged, sleeved, o-ring option



DOMESTIC AND SPECIAL PUMPS

- Centrifugal pumps
- Jet pumps
- Double suction pumps
- Peripheral pumps
- Circulation Pumps
- Horizontal and vertical pumps
- Single and multistage pumps
- Slurry pumps
- Pool pumps
- Hot water pumps
- Drainage Pumps
- Vortex pumps
- Oil pumps
- Chemical pumps
- Sewage pumps

Notes:



20231005V1c

Letra Water Technologies & Engineering Co.

Mansuroglu Mahallesi 286/1 Sokak No:1

Ontan Plaza D:106 Bayrakli, Izmir / TURKEY

✉ info@letrawater.com ☎ +90 532 257 1448

designed by www.hokuspokus.com.tr

www.letrawater.com