



# FAGGIOLATI PUMPS<sup>®</sup> S.p.A.

## *company profile*

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# About us: the company

Faggiolati Pumps S.p.A., a certified business under ISO 9001 and ISO 14001, is highly specialized in the **designing and construction of submersible pumps, mixers and aeration systems.**

Our **casting is rigorously certified and made in Italy**; ranging from various cast-iron alloys to authentic cast stainless steel AISI 316, Duplex, SuperDuplex, Hastelloy and various kinds of bronze alloys.

The **proposed pumps** are: Drainage, Grinder, Single-channel, Multi-channel and high-performing Vortex. Motors up to 50 kW are certified under the **ATEX** explosion-proof regulations.

We also deliver **special pumps tailored to our clients' requests**, including electric and electronic equipment and remote control systems.





# About us: our history



**1979 Faggiolati Giovanni is founded** (electro-mechanic and representative agency)

**1985** The **first Faggiolati's catalogue/pricelist** is released including pumps from 0.50 HP to 7.5. HP.

**1988 first manufacturing plant;** our range of submersible electrical pumps up to 30 kW is complete

**1992** Our **first mixer** (type 408T8/7-3) is launched

**1997 ISO9000 quality certification**

**1998** new XM40-XM60 mixer range

**1999** Our **"second generation" pumps are created** (interchangeability plan)

**2000** our **first range of Series OJ aerators** is born

**2002** enlargement of **our new production plant**

**2003 ATEX** certification

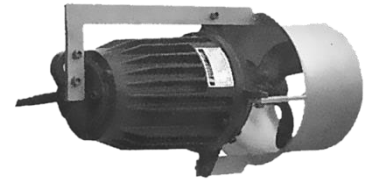
**2006** new aeration system called **Ossi-Mix**

**2007 ISO14000 environmental certification**

**2009** next generation **Series AJ** aerator systems

**2013** plans for **new production plant** begin

**2014 "third generation" machines** based on the **"Solve&Save" philosophy** is born



# Product Line: submersible pumps

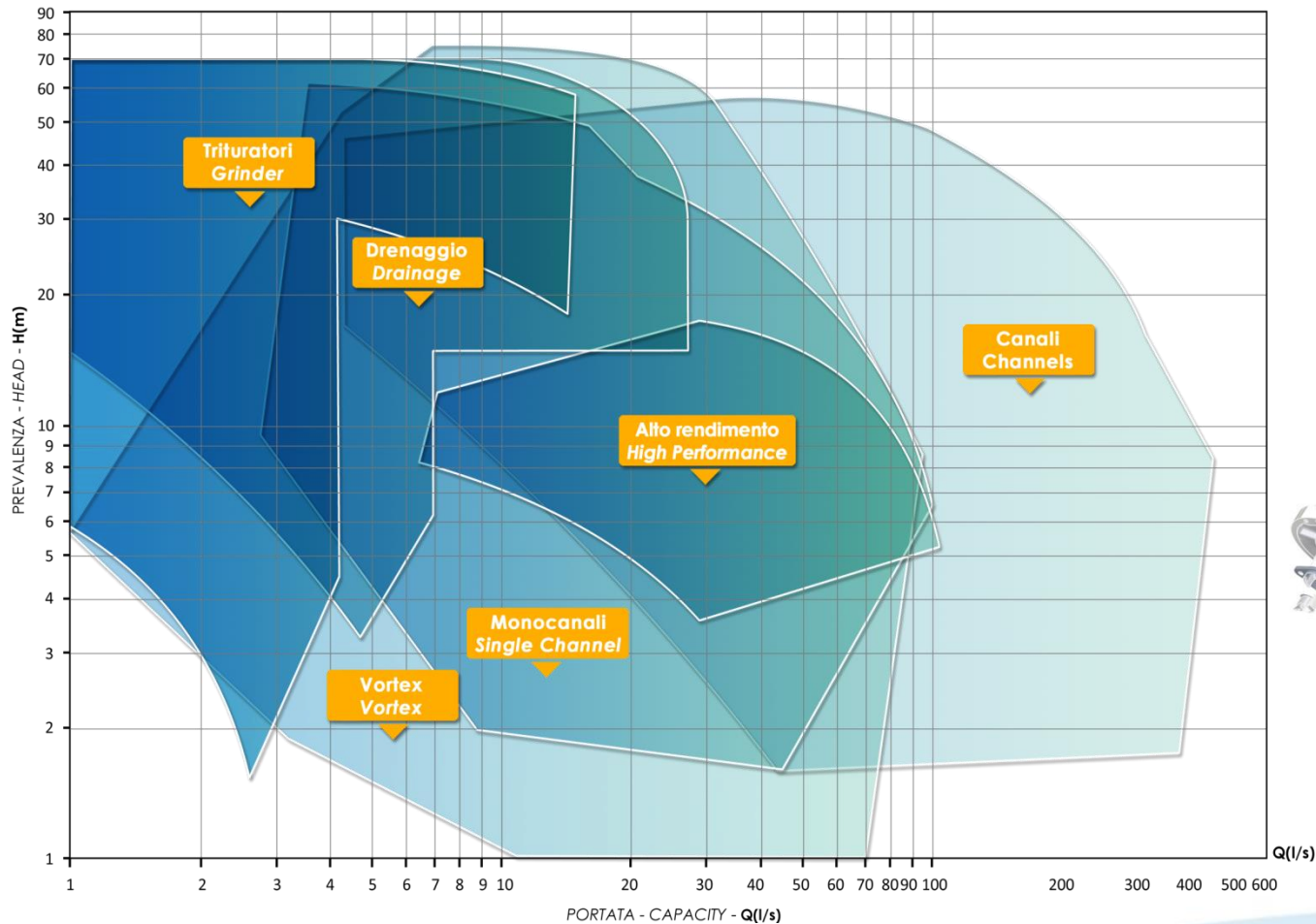
To address the ever growing environmental concerns coming from both the civil and the industrial sector, Faggiolati introduces its **"third generation"** of submersible pumps



**Highly efficient** motors, well-suited to be managed through an inverter, and **"Zero Stop" hydraulics** optimized for a variety of applications.

# Product Line: submersible pumps

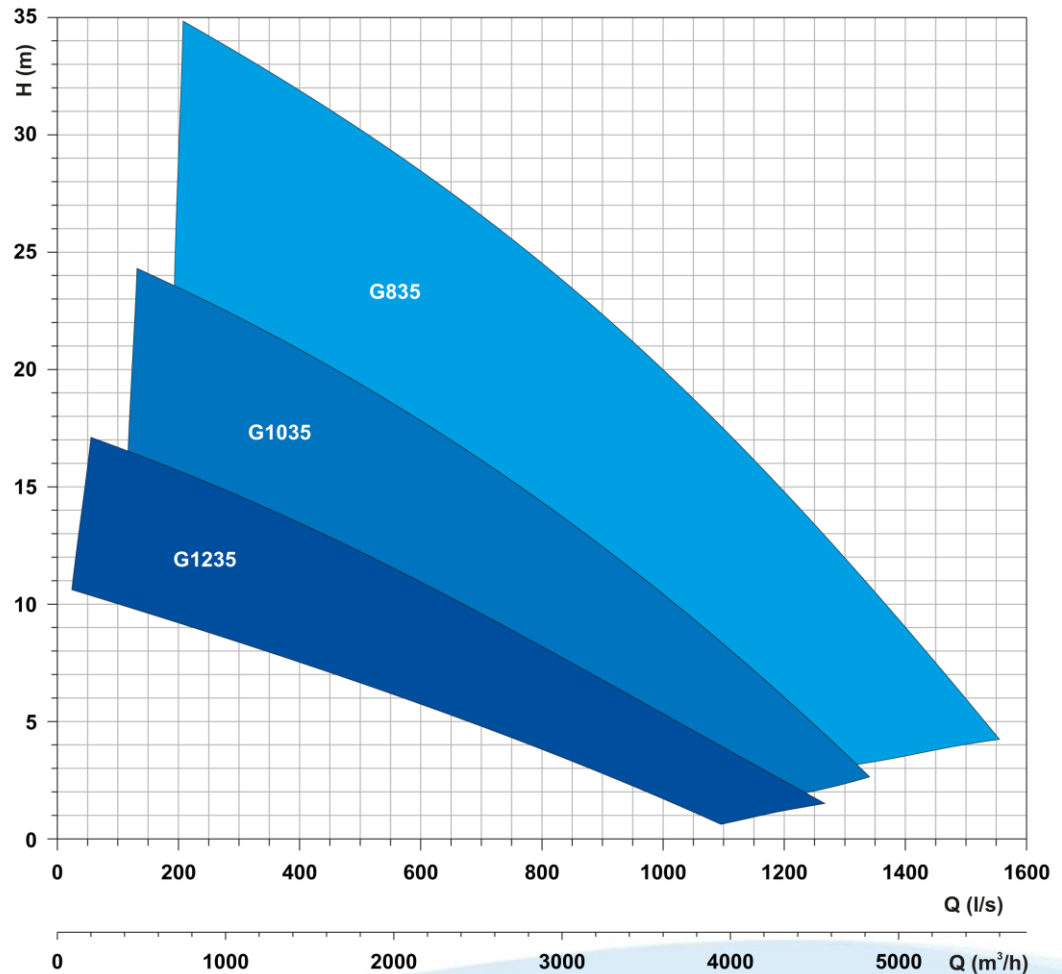
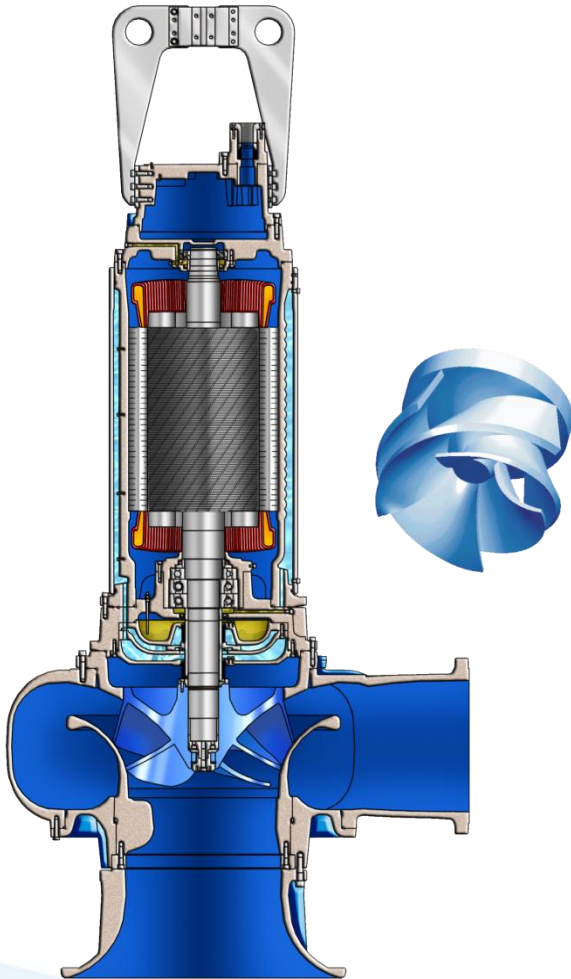
The product line includes **various types of standard pumps available in a number of different versions** (from 0.5 kW to 350kW) in 2/4/6/8/10/12 poles 50-60 Hz



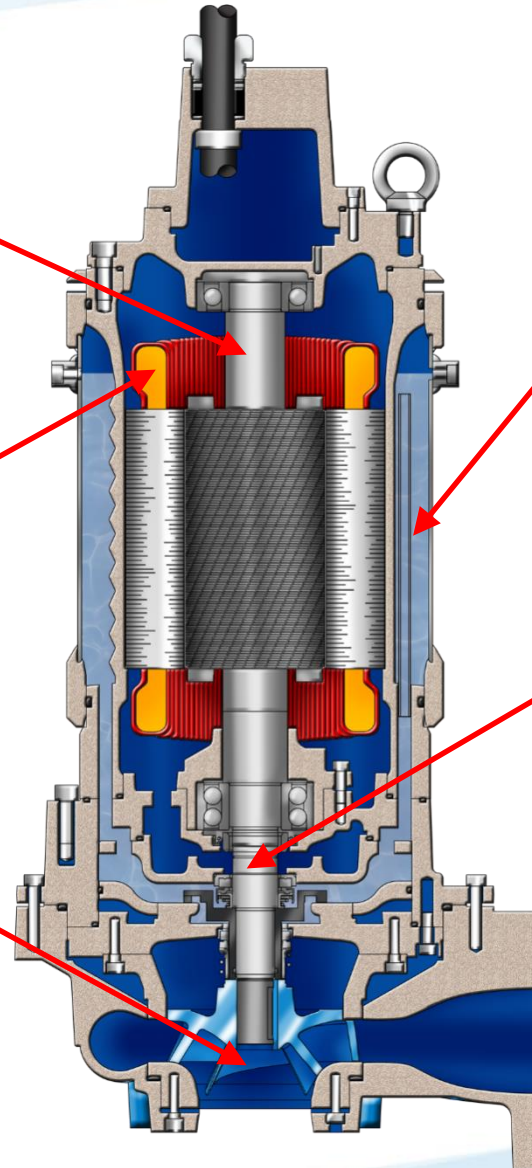


# Product Line: DN 500 submersible pumps

Suitable for civil and industrial applications where **a considerable load is required** (up to 1.550 L/s) the submersible pump line is available in **8/10/12 poles machines DN500 up to 350 kW**



# Submersible pumps: constructional characteristics



the **motor** is directly coupled with the impeller

motor **cooling jackets**

**IE3** motor efficiency class, suitable for inverter (VFD)

**“Zero Stop” hydraulics:** effective, efficient, evolved

**Shaft + mechanical seals:** radial ball bearings, permanently oiled, free of maintenance; double mechanical seals according to DIN norms



# Electropumps: available hydraulics

To guarantee correctly working machines and to decrease energy consumption, it is important to select a suitable type of pump which best matches the particular circumstance. The hydraulics/impellers we propose are:



**T** Grinder



**P** Open-double channels



**M** Single Channel



**C** With Channels



**V** Vortex



**J** Multi Channels with cutting system



**D** Drainage



**H** High Performances



**F** Progressing Cavity Pump



**S** Sand Vortex

# Product line: bronze and stainless steel electropumps

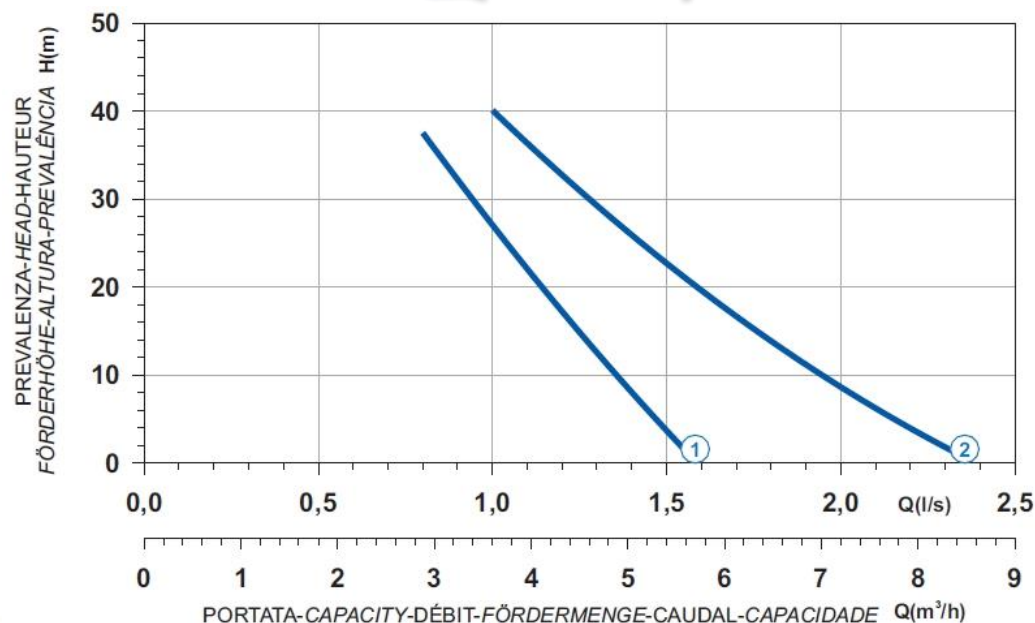
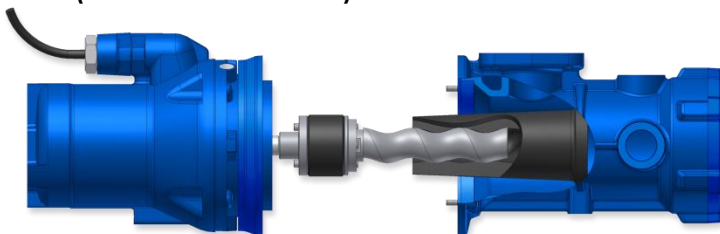
The **standard bronze line** ranges from 0.5 kW to 6.0 kW with customizable alloy options (bronze/aluminium).



The **standard AISI 316 line** ranges from 0.8 kW up to 50 kW with customizable alloy options (**duplex, superduplex, hastelloy**).

# Product Line: submersible progressive cavity pumps

The new "**F series**" with progressive cavity impeller, represents the best solution for applications where a centrifugal pump does not work: viscous fluids (chemical industry, varnishes, cleansers and glues), pasty fluids (food and paper industry), fluids not to be emulsified (oil emulsions).

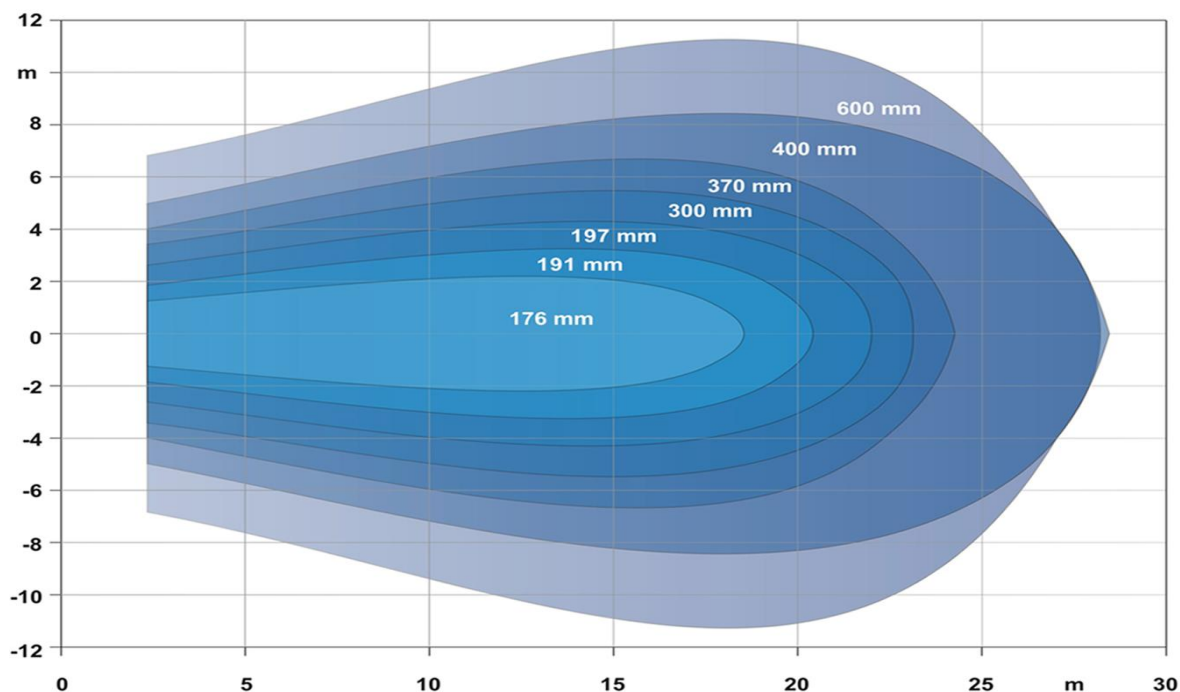




## Product Line: submersible mixers



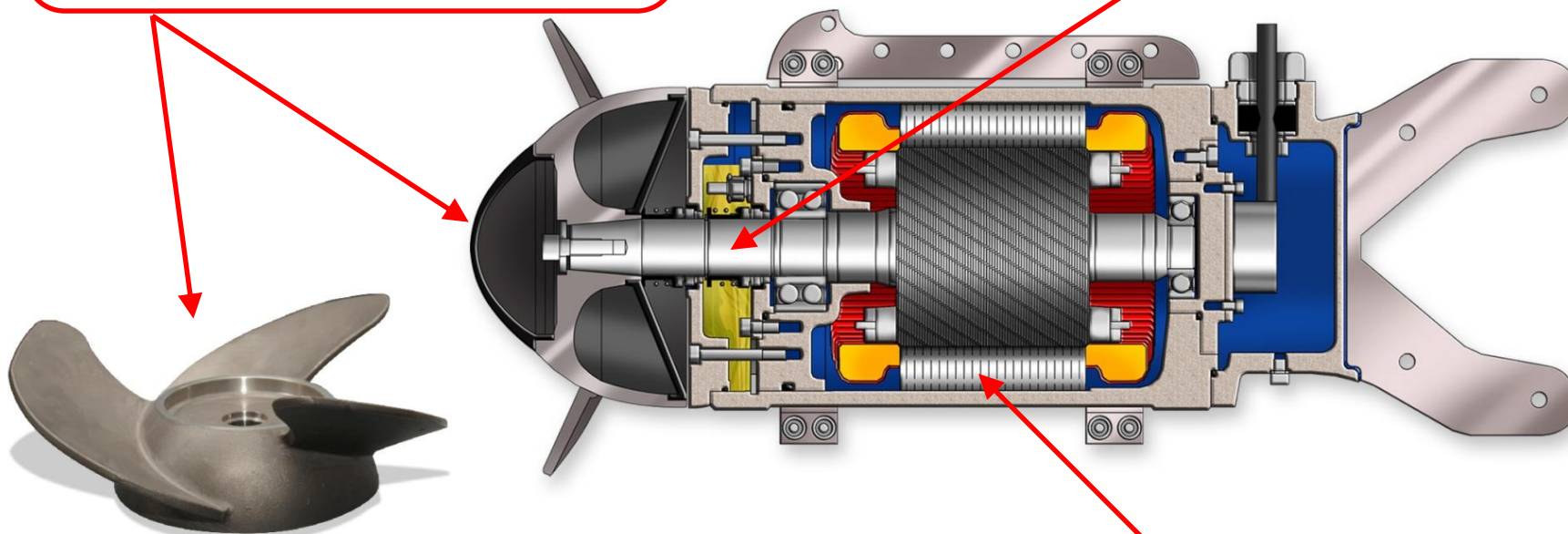
The product line also includes **submersible mixers** (0.6 kW to 10 kW) with electrical multi-polar motors (4-6-8-10-12 poles) for mixing and homogenizing slurries and liquids in waste water treatments plants, painting systems and livestock applications.



# Mixers: constructional characteristics

**Propeller with 2/3 blades fully casted in AISI 316 (not welded)**  
with highly efficient self-cleaning hydraulic profile

**Oversized AISI 316L shaft**  
directly coupled with the propeller (no gearbox)



The **mixer line** includes:

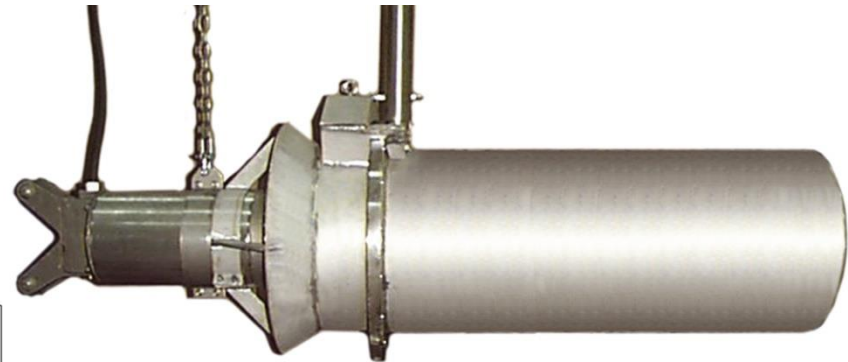
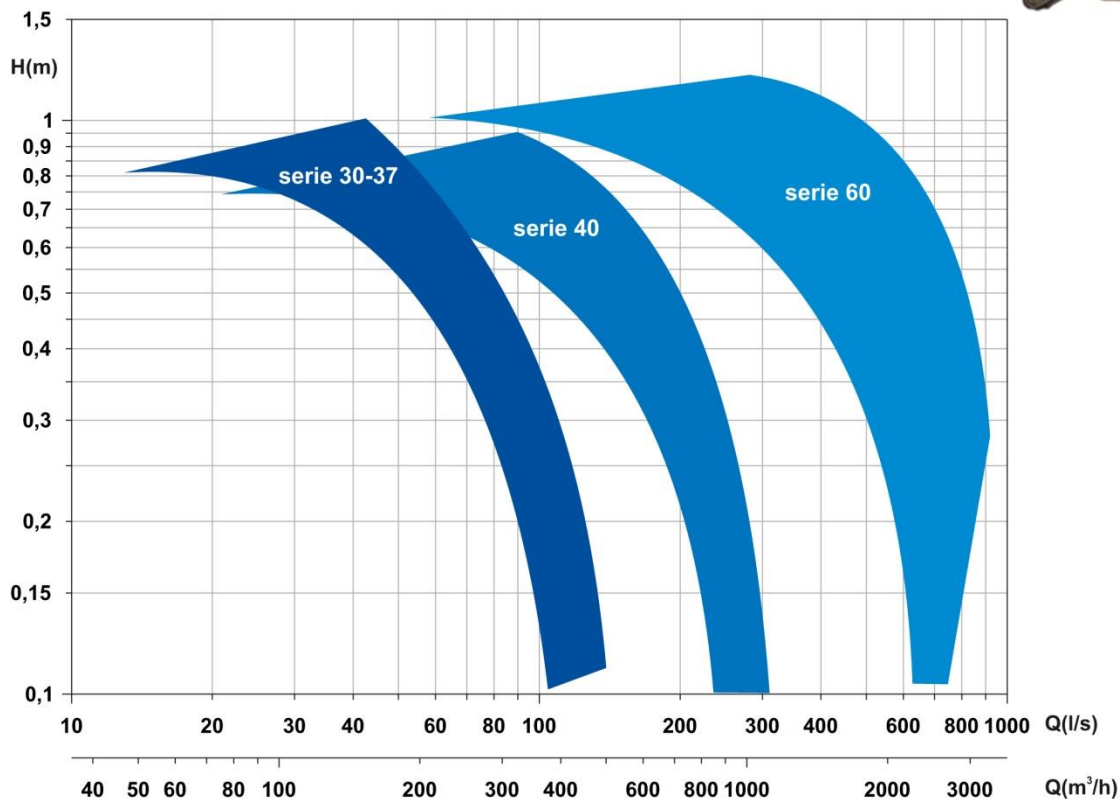
**GM Series:** EN-GJL-250 cast-iron main casting; AISI 316 stainless steel shaft and propeller

**XM Series:** AISI 316 stainless steel main casting; AISI 316 stainless steel shaft and propeller

H Class **Motor**  
suitable for inverter

# Product line: recirculation pumps

**Submersible horizontal propeller pump** (for low-head and high flow rate) for the recirculation of active sludge in waste water treatment plants and nitrification /denitrification applications.





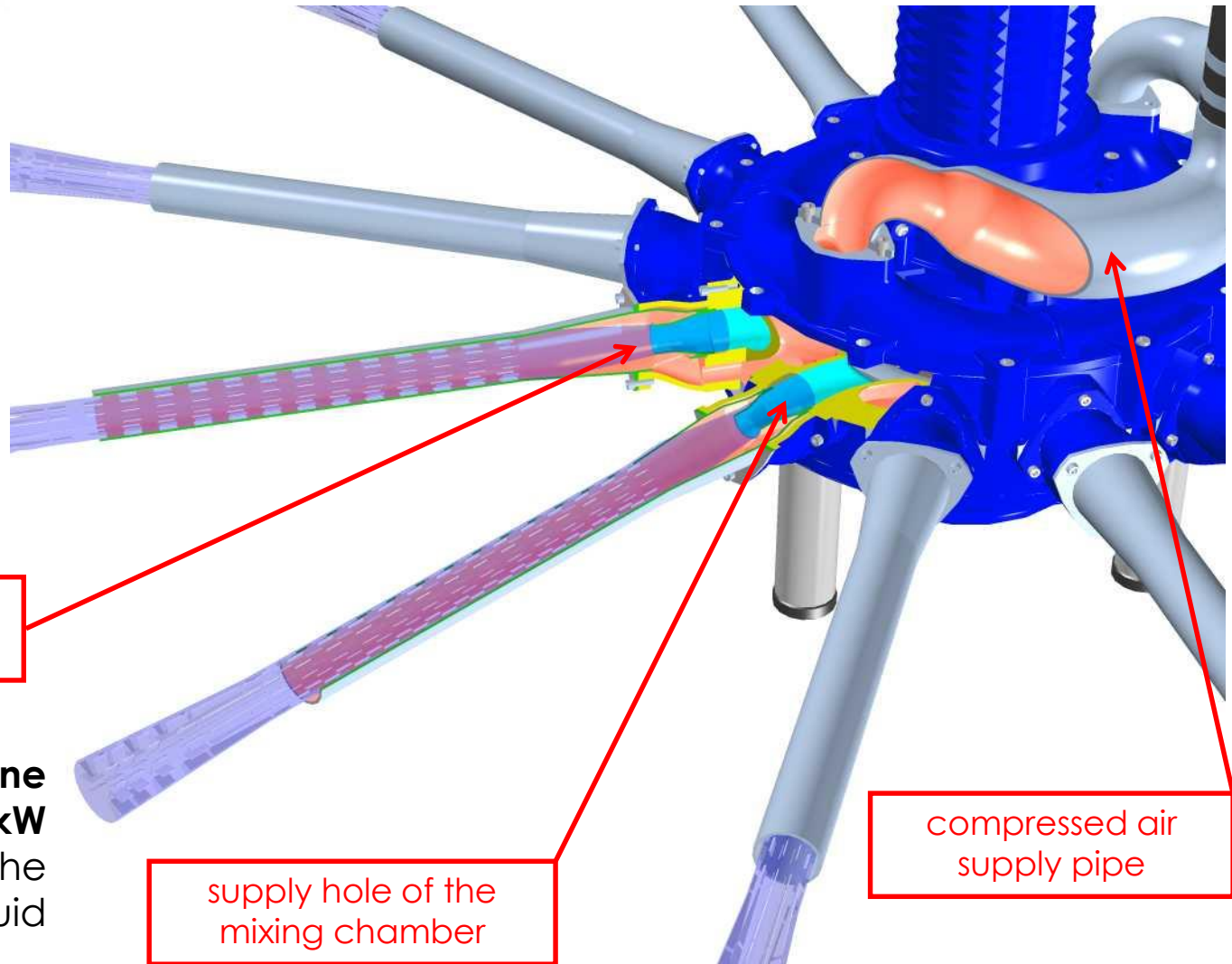
## Product line: aerators

The product line also includes aeration systems (**Ossi-Mix, Arial-Jet and Ossi-Jet**) for various types of muds/wastewaters and tank sizes.



# Aerators : Ossi-Mix

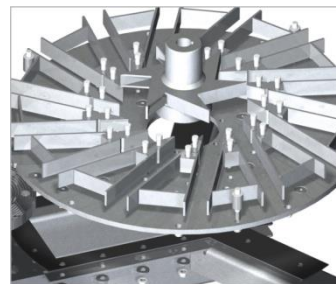
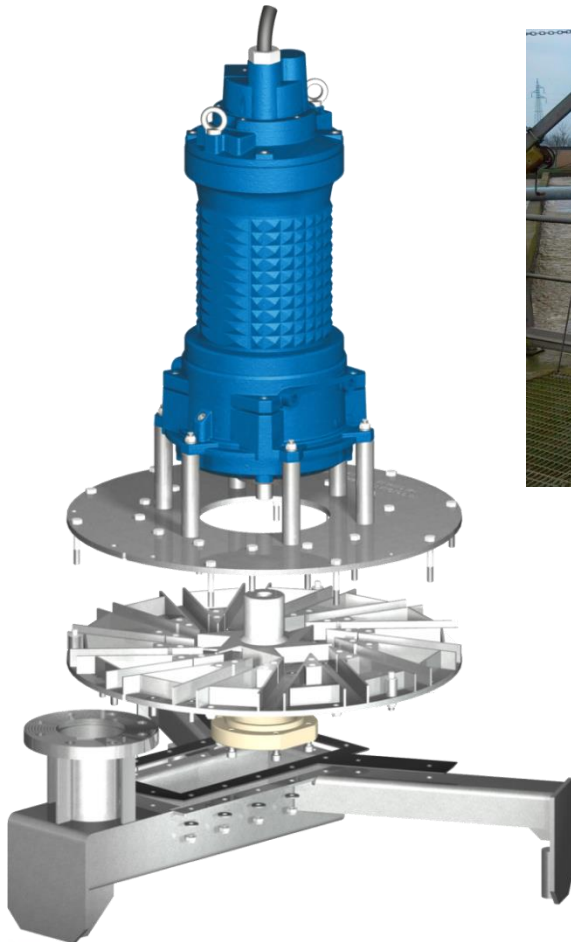
The submerged,  
movable and  
supercharged  
aeration system:  
**the alternative  
aeration**



The product line  
ranges from 4 kW  
to 14 kW for the  
standard and liquid  
oxygen versions

# Aeration systems: Arial-Jet

The **radial AJ self-priming aerators** are commonly used in the water treatment systems and particularly for the homogenization, equalization, stages of biological oxidation as well as contemporary nitrification and mud stabilization.

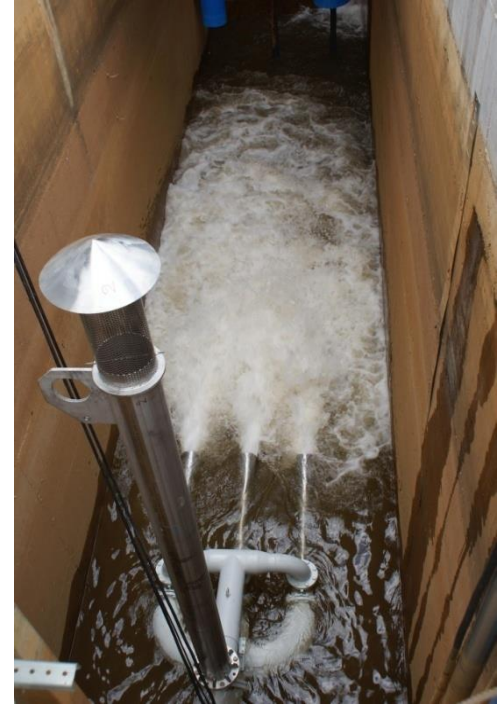
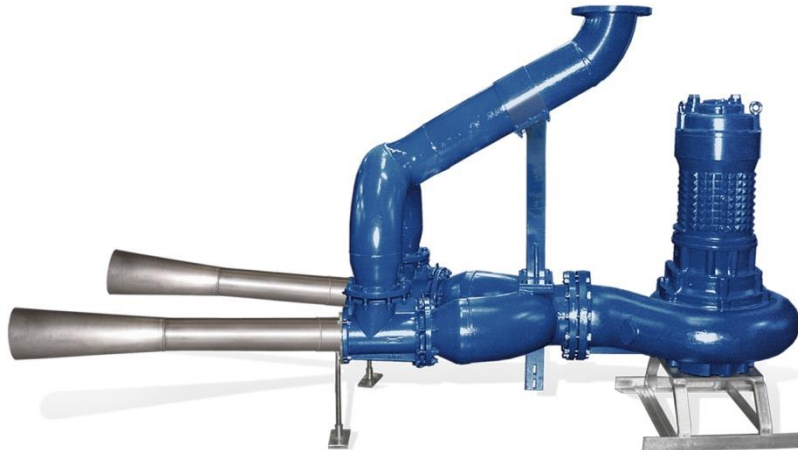
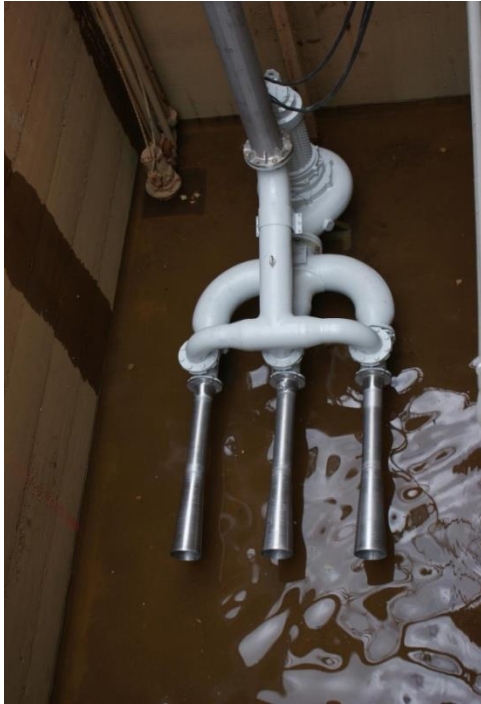


The product line ranges from **2.5 kW to 55 kW** in the standard and extended channels versions



# Aeration systems: Ossi-Jet

The **self-priming OJ Venturi oxygenators** are primarily used for the oxygenation process, the neutralization of CO<sub>2</sub>, the mud recycling and the abatement of foams.



The **product line ranges from 2.8 kW to 40 kW** including versions with one to four jet ejectors

# Product line: special executions

One of the main features which characterizes the company is **its extreme productive flexibility**, allowing the realization of special machines for non-standard applications, made upon customer requests.





# Product line: special executions

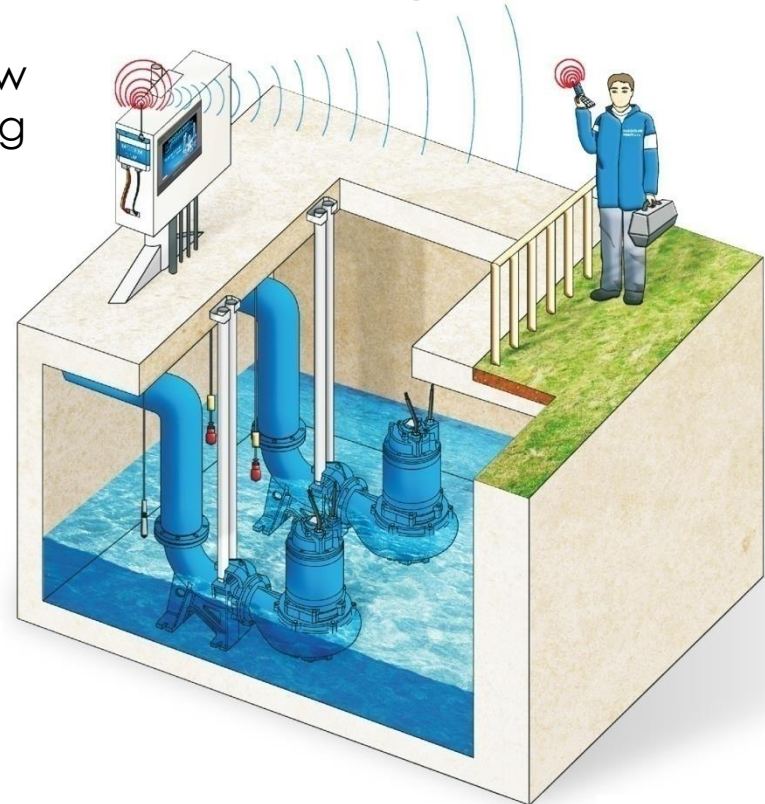
Special and custom products could be made in non-standard alloys, with anti-abrasion treatments, special components for hot liquids, customized installation accessories, special painting cycles, ...





# Product line: control and monitoring units

**“Sapientino” remote control system:** new device for the management and monitoring of lifting stations



**Safety Box:** control unit for the thermal protection handling/monitoring and oil chamber probe



# Production plant: headquarters

The headquarters, situated in the industrial area of Macerata, is built on two floors: technical, commercial and administration offices are located on the second floor with logistics and production on the ground floor.





# Production plant: R&D department

The technical office operates by using the most sophisticated IT systems and in cooperation with several Italian and foreign Universities.





# Production plant: production area

Components are assembled after being submitted to mechanical and electrical tests following the related measures



Production includes four assembly lines, divided upon the size of the machines.



# Production plant: turning & machining department

Internal turning & machining department: including two completely automatic machining centers, equipped with robot, and three numerically controlled lathes.





# Production plant: tests & inspections

Indoor and outdoor testing tanks, equipped with the most advanced instruments devised to test machines up to 400 kW DN 500.

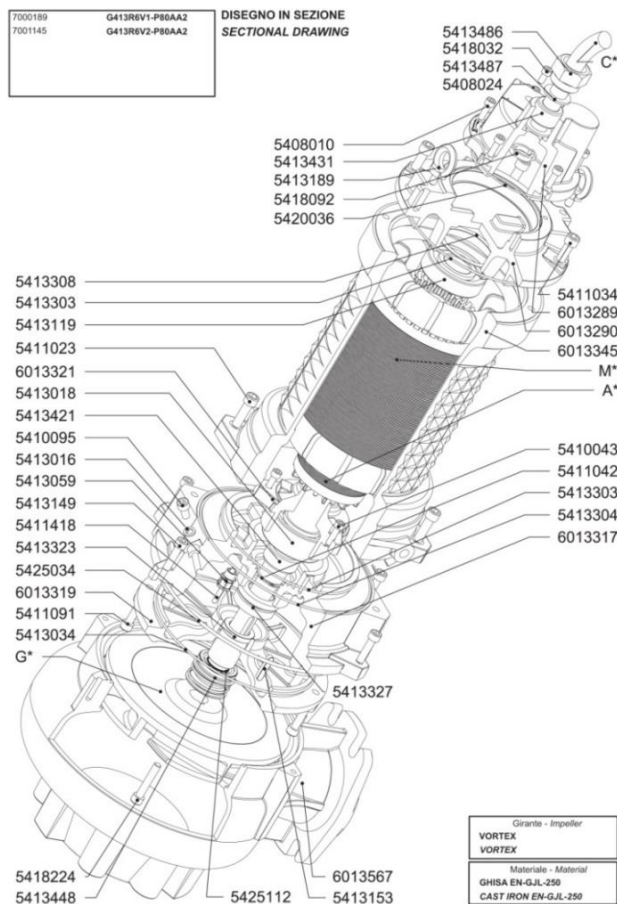






# After sales and repair service

We guarantee an operational continuity and the safeguard of our systems through a customer care service catered to supply **all the original replacement parts** in a timely manner.



**Internal workshop:** each machine under reparation is sandblasted and analyzed in order to establish the cause of the breakdown.



# Applications: main sectors of interest

- **Civil applications**

- municipal Wastewater Treatment Plants
- sewage and rain waters lifting stations
- Waste-to-Energy incinerators
- Landfill Leachate



- **Industrial purification and drainage**

- Thermo/hydro power plants
- Chemical & Petrochemical sector
- Textile & Leather sector
- Oil & Gas sector
- Food sector
- Mining sector
- Desalination systems
- Civil and naval shipbuilding



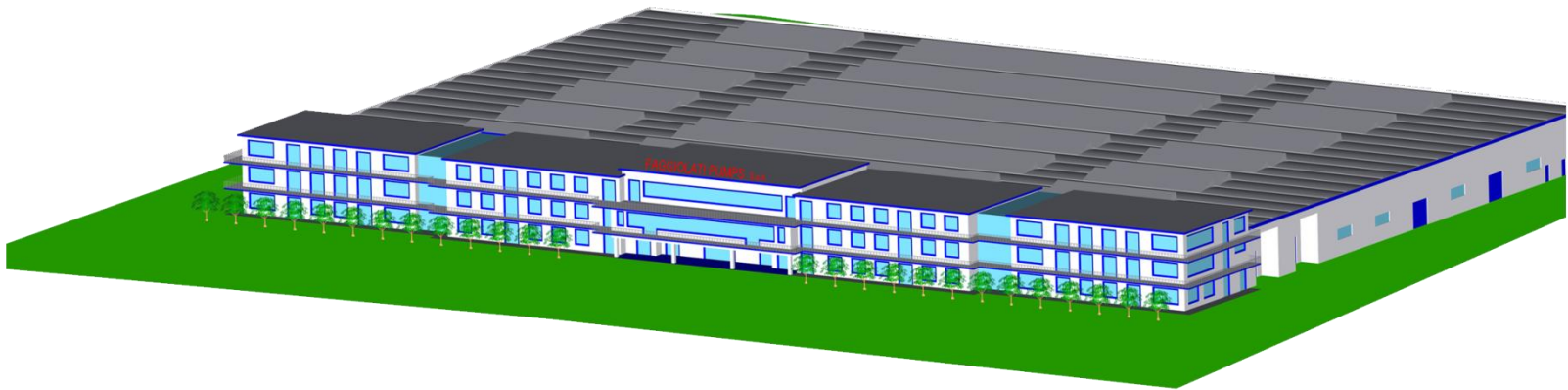


## References: main customers



# A future perspective: the new plant

The new plant (around 28,000 m<sup>2</sup> large) will be built 7 Km away from the current one which will be converted in a research and production center of special pumps.



# Where we are: come and visit us



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*Thanks for your  
attention*

