

Company Profile

Marketing Dept., February 2024

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- o Main sectors of interest

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FAGGIOLATI PUMPS[®]S.p.A.

Introduction: OVERVIEW

Faggiolati Pumps S.p.A., a certified company 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 **Italian based**; ranging from various cast-iron alloys to authentic AISI 316 fusion stainless steel, Duplex, Hastelloy and several types of bronze alloys.

The available **pumps types** are: Drainage, Grinder, Single-channel, Multi-channel, highperforming Vortex and High Efficiency (H series). Motors up to 50 kW are certified under the current **ATEX** explosion-proof law.

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



Introduction: HISTORICAL BACKGROUND

1979 Faggiolati Giovanni Co. is founded (service company and representative agency)
1985 The first Faggiolati's catalogue/price list is released including pumps from 0.50 HP to 7.5. HP.
1988 First manufacturing plant: our range of submersible Pumps up to 30 kW is completed
1992 Our first mixer (type 408T8/7-3) is launched
1997 ISO 9000 quality certification
1998 New XM40-XM60 mixer ranges
1999 Our "second generation" of Pumps is created (interchangeability plan)
2000 Our first range of OJ Series aerators is launched
2002 Enlargement of our new production plant

2003 ATEX certification

2006 New aeration system called Ossi-Mix

2007 ISO 14000 environmental certification

2009 Next generation AJ Serie aerator systems

2013 Plans for new production plant begin

2014 "Third generation" machines based on the "Solve&Save" concept

2015 Completion of submersible grinder pumps range up to 25Kw with efficient cutting system.

2016 New J-series submersible pumps "KUT ALL" with special cutting system

2019 New Mixer GR12 series 1,200mm propeller with low power consumption

2020 Completion of "BIG PUMPS DN 350 - DN400" range.

2022 Completion of AISI316 - DUPLEX - SUPER DUPLEX up to 40kW ATEX certified range.

2023 Completion of GR12 Mixer series range.





FAGGIOLATI PUMPS S.p.A. Introduction: MAIN SECTORS OF INTEREST

Civil applications

- Equipment for civil wastewater treatment
- o Sewage and rain waters lifting
- Waste-to-energy incinerators
- o Landfill leachate

Industrial applications

- o Power plants
- o Chemical & Petrochemical sector
- o Textile & Leather sector
- o Oil & Gas sector
- o Food sector
- o Mining sector
- o Desalination systems
- o Civil and naval shipbuilding
- o Paper Industry









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Products: 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.



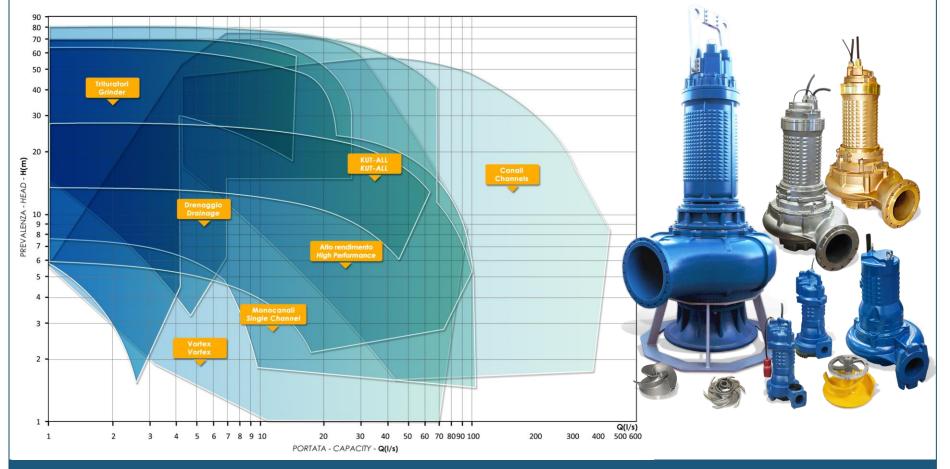




Highly efficient motors, well-suited to be managed through an inverter, and **anti-clogging hydraulics** designed and optimized for a variety of situations.

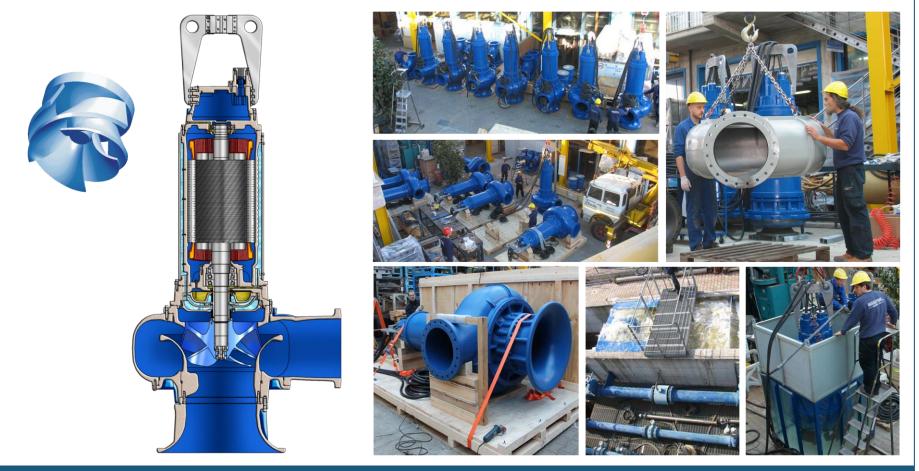
Products: SUBMERSIBLE PUMPS

The range of production includes several types of Submersible 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.

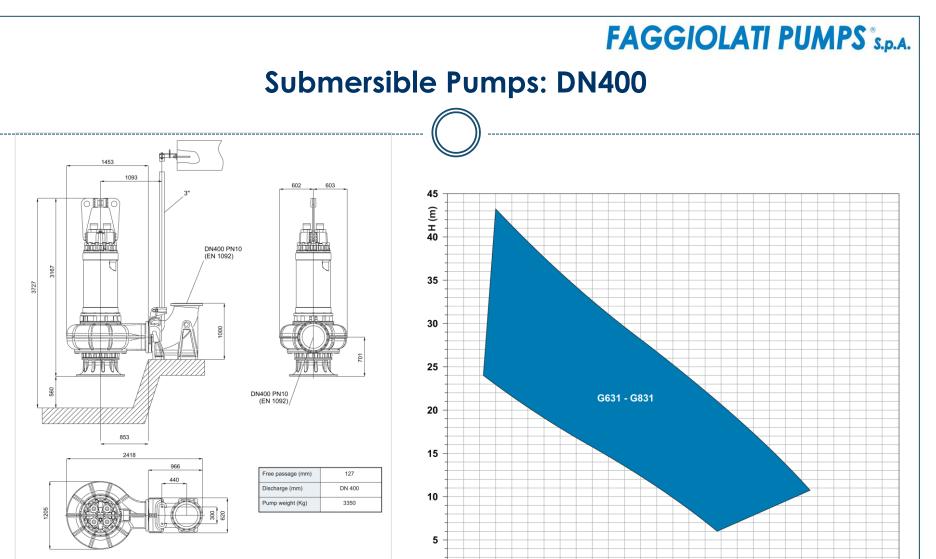


Submersible Pumps: DN400 - DN500

Suitable for civil and industrial applications, where **a considerable capacity is required**, up to 1.550 l/s; the submersible pump line is available in **8/10/12 poles**, machines DN400 - DN500 up to 350 kW.



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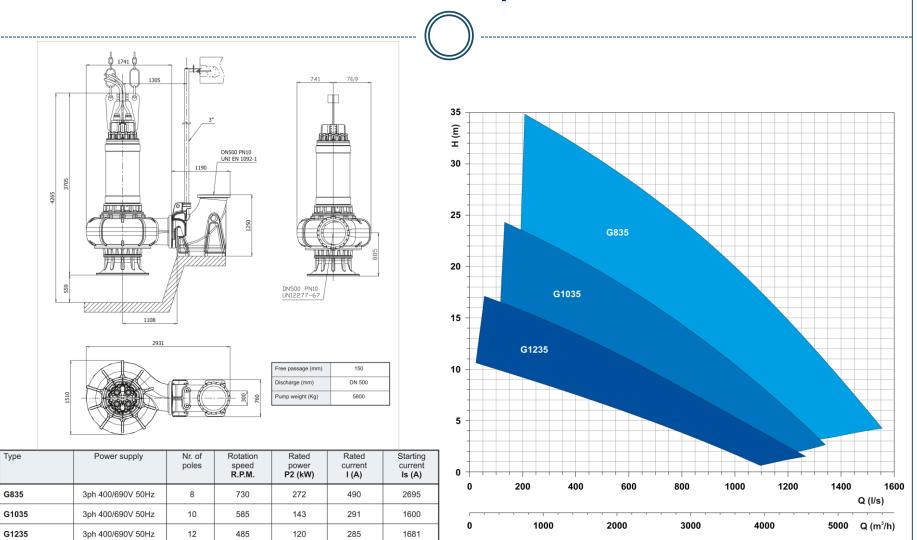


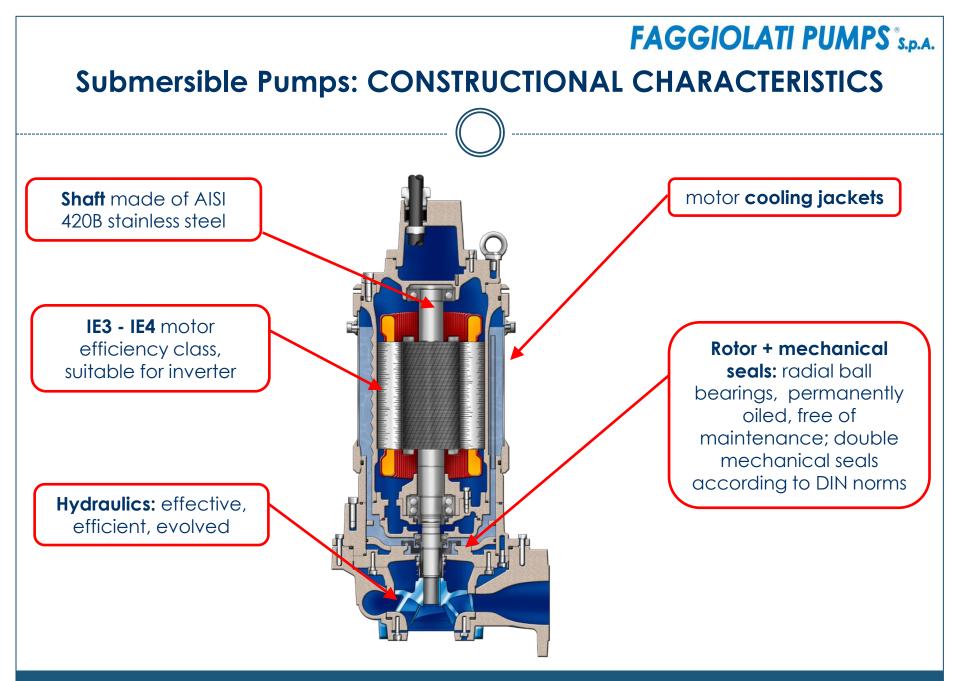
Туре	Power supply	Nr. of poles	Rotation speed R.P.M.	Rated power P2 (kW)	Rated current I (A)	Starting current Is (A)
G631	3ph 400/690V 50Hz	6	984	260	470	2632
G831	3ph 400/690V 50Hz	8	725	160	305	1098

4000 Q (m³/h)

Q (I/s)

Submersible Pumps: DN500





Submersible Pumps: IMPELLERS



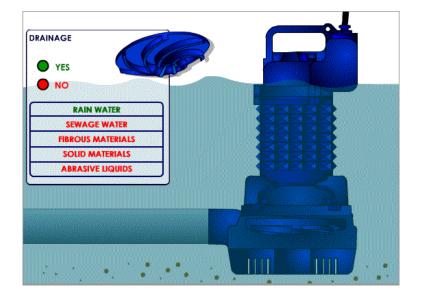
Drainage

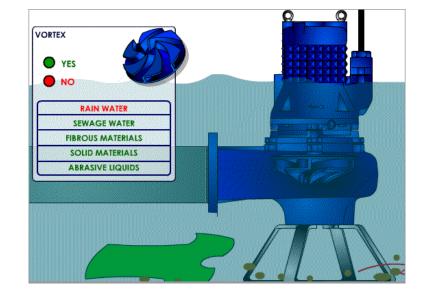
Multi-blade impeller for light water. Applications: rain water, surface irrigation.



Vortex

Vortex impeller suitable for pumping liquids containing large solids and/or fibrous materials. Applications: urban sewerage systems, animal breeding plants.





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Submersible Pumps: IMPELLERS



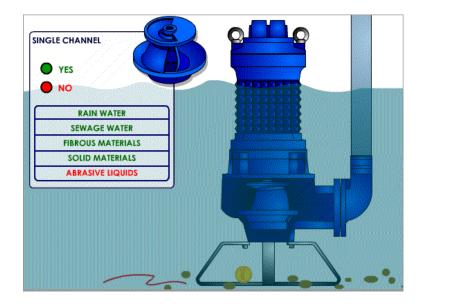
SINGLE CHANNEL

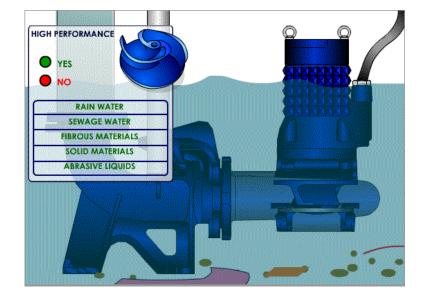
Single channel impeller, for liquids containing fibrous materials and/or suspended solids. Applications: purification plants, tanneries, animal breeding plants.



HIGH EFFICIENCY

Multi-channel open rotor with high hydraulic efficiency, with self-cleaning blade profile which, through a special adjustable suction flange with grooves, allows the expulsion of solids and also fibrous.





Submersible Pumps: IMPELLERS



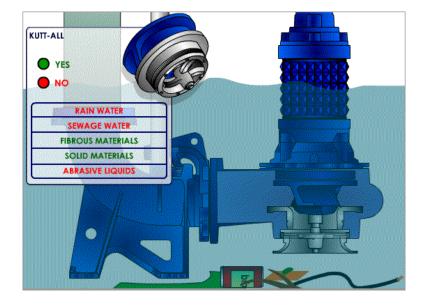
KUT-ALL

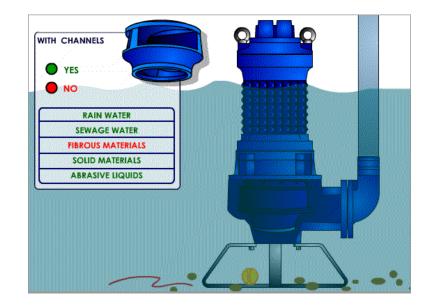
Impeller with a special "KUT-ALL" system, designed to create a cutting unit for solid and fibrous bodies in the pumped liquid.



WITH CHANNELS

Closed multi-channel impeller, for clean liquids pumping or slightly laden liquids in handling absence of filamentous materials. Applications: large drainage systems, purification plants.



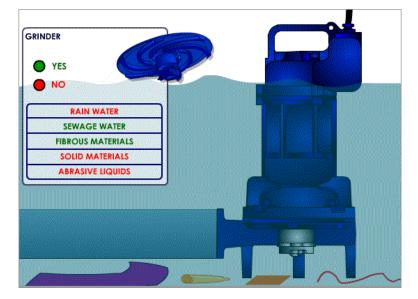


Submersible Pumps: IMPELLERS



GRINDER

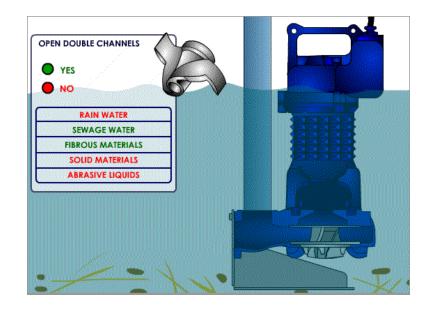
Multi-blade suction impeller with grinding group in stainless steel AISI 440, particularly suitable as a grinder for paper or textile materials. Applications: clearance of waste waters originating from service stations, residential communities, camping sites, etc.





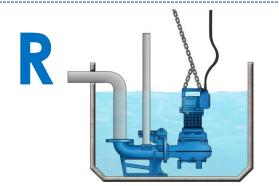
Open-double channels

Impellers are equipped of a special grinder system and are projected for waters and mud coming from agricultural drainages.

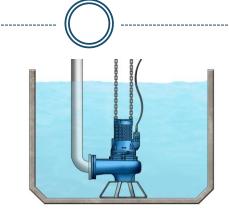


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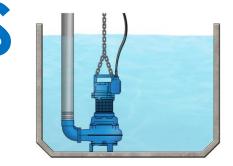
Installations



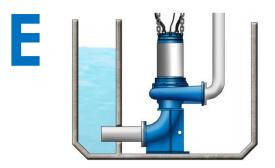
Fixed installation by immersion, with automatic coupling system with guide rails.



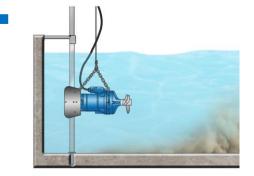
Portable installation, by immersion of a support foot and attachment of rigid or flexible delivery tube.



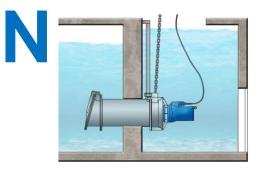
Free immersion installation with support feet and threaded rigid delivery pipe connection.



Fix installation in dry chamber, with cooling jacket, on suction elbow, direct connection with suction / discharge piping.



Fixed installation for mixers, with adjustable guide tubes.

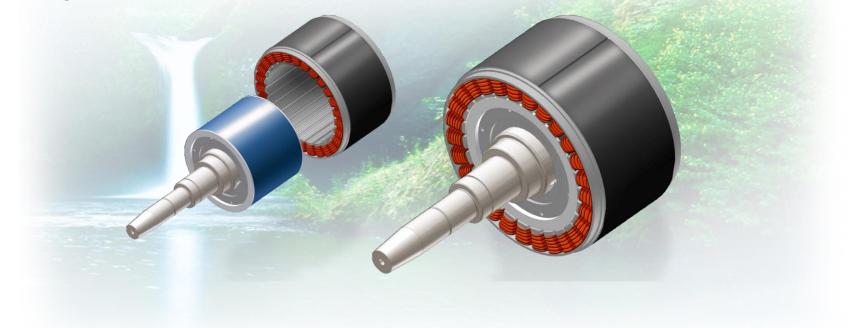


Fixed installation for recirculation propeller pumps with automatic coupling system and guide rail.

OUR COMMITMENT TO ENERGY SAVINGS

Since 2010, we have been redesigning the hydraulics of our machines to increase their performance. Between 2011 and 2012, we began working to get all of our machines into higher efficiency classes, implementing permanent magnet synchronous motor technology, where possible.

We have always been sensitive to energy issues: our "third generation" submersible pumps reach previously set efficiency goals. Furthermore, all the motors fit for variable speed operation via inverter, which allows to better manage the performance of the entire machine and to minimizing operating costs.



MOTORS IN EFFICIENCY CLASS IE3 – IE4

Although machine-integrated motors (i.e. pumps, ventilators and compressors) are excluded from EuP Directive 2005/32 EC, Faggiolati Pumps S.p.A. has updated its catalogue product range with a "third generation" of submersible pumps built entirely with IE3 – IE4 high-efficiency electric motors, class H/B insulation and suitable for inverters.

Quality of the materials used

Low magnetic loss sheet metal High percentage of copper purity Cables in silicone (180°C) and connections with thermal crimping/brazing welding

Advantages:

High output Less motor heating (Delta T min 45°C max 80°C) and optimal shaft temperature for good long-term continuous operation. Longer bearing duration Fit for applications with inverters Greater capacity to withstand voltage variations



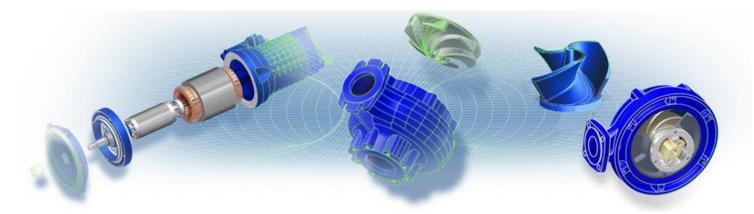
Solve & Save New Generation Pumps

SOLVE & SAVE: A DOUBLE BENEFIT FOR ANY APPLICATION! Faggiolati presents its "new generation" submersible pumps:

- High-efficiency motors suitable for VFD-drive
- Hydraulics optimized for the widest range of applications
- Materials and several designs suitable for any type of wastewater
- Reliability and long life components



Thanks to the hydraulic latest evolution and to a wide range of available materials, the Faggiolati submersible pumps meet the needs of "resolution" of the most various application problems with a "savings" on operating/management costs.



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Solve & Save New Generation Pumps



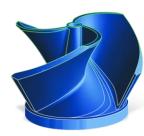
SOLVE

The hydraulics employed in the submersible pumps

greatly differ from those used in pumps for pure liquids. The often unsolvable problem is moving a liquid that, by definition, carries solids of nature with concentration and size the most disparate and uncontrollable.

There is not a unique solution and the probability of clogging can be made, case by case, more or less low but never completely voided.

With the "**new generation**" Faggiolati has only selected hydraulic that ensure the ultimate in terms of reliability and performance.





FAGGIOLATI PUMPS S.p.A. WHY CHOOSE THE NEW "SOLVE & SAVE" GENERATION

SAVINGS

With the latest in hydraulics and the vast choice of available materials, Faggiolati submersible pumps respond to the need to "resolve" the most diverse application problems. Thanks to IE3 – IE4 motors, suitable for management via inverter, in addition to machine efficiency and reliability, Faggiolati allows you to "save" on management costs.

Factors affecting management costs

Rotation speed management Machine structure and choice of the most suitable materials Clog and abrasion resistance Total output (motor+hydraulics)

WHY CHOOSE THE NEW "SOLVE & SAVE" GENERATION

SAVINGS

The contributing factors to decrease the management cost of a submersible pump are various and must be optimized simultaneously:

Overall Efficiency (motor efficiency and hydraulic efficiency)

• The possibility to operate at variable speed with "active control " through an inverter

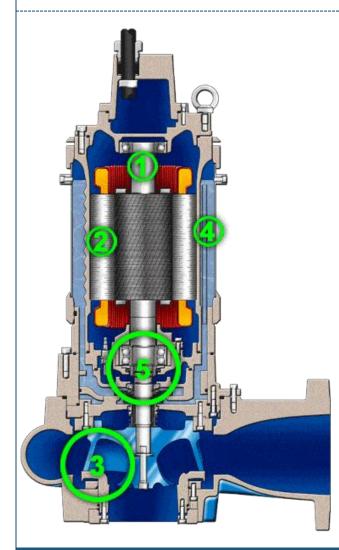
 Low clogging risk hydraulic in order to minimize the chances of downtime.

• Materials and construction forms suitable for each wastewater to be treated.

Reliability and long life components.

Third generation of Faggiolati submersible pumps includes the construction and functional characteristics that allow to make the optimal combination of such factors for any application.

WHY CHOOSE THE NEW "SOLVE & SAVE" GENERATION



The reason why the new generation "Solve & Save" is to chose

Thanks to the latest hydraulic evolution and to a wide range of available materials, the Faggiolati submersible pumps meet the needs of "resolution" for the most various application problems. Thanks to the IE3 – IE4 motors, suitable to control via inverter, in addition to the effectiveness and reliability of the machines, Faggiolati allows the "savings" on operating/management costs.

1) Shafts made of stainless steel AISI 431B, grided down in ball bearings and mechanical seals seats, oversized compared to the standard parameters of use, dynamically balanced.

2) High-efficiency motor at efficiency class IE3 – IE4, designed to operate at variable speed through inverter.

3) Hydraulic multi-channel open impeller with high hydraulic efficiency, with self-cleaning blade profile equipped with a special adjustable suction flange, that allows fine clearance adjustment.

4) Motor cooling jacket through forced circulation of the coolant in closed circuit.

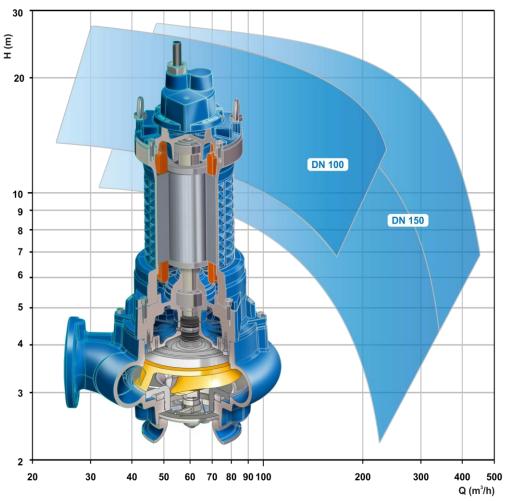
5) Rotor + seals is the core containing the most stressed components of the submersible pump; radial ball bearings, life-long lubricated, maintenance-free; double mechanical seals according to DIN.

KUT-ALL Special Cutting System

Submersible pumps with special "KUT-ALL" system

composed of a stationary ring and a rotating ring designed as a cutting unit for solid fibrous bodies in pumped liquid.





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KUT-ALL Special Cutting System

USE

High-efficiency multichannel hydraulics cover almost all ranges of applications; designed to withstand extreme usage cycles (liquids with ropes, electrical cables, cans, plastic bottles, pieces of wood, etc.), the exclusive "KUT-ALL" system trims solid bodies thanks to specially shaped surfaces, sharp edges and the use of heat treated stainless steel.

The product range has Different Models from 7.0 kW to 30 kW RPM 1450



MATERIALS

- Motor housing Cast Iron EN-GJL-250
- Impeller Nodular cast iron GS400 UNI-EN1563 with tungsten treatment
- Kut-system Stainless Steel AISI 420 with thermal treatment
- Shaft Stainless Steel AISI 431
- Mechanical seal Silicon Carbide/ Silicon Carbide

SPECIAL MATERIALS

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, ...)**.

Products: MIXERS



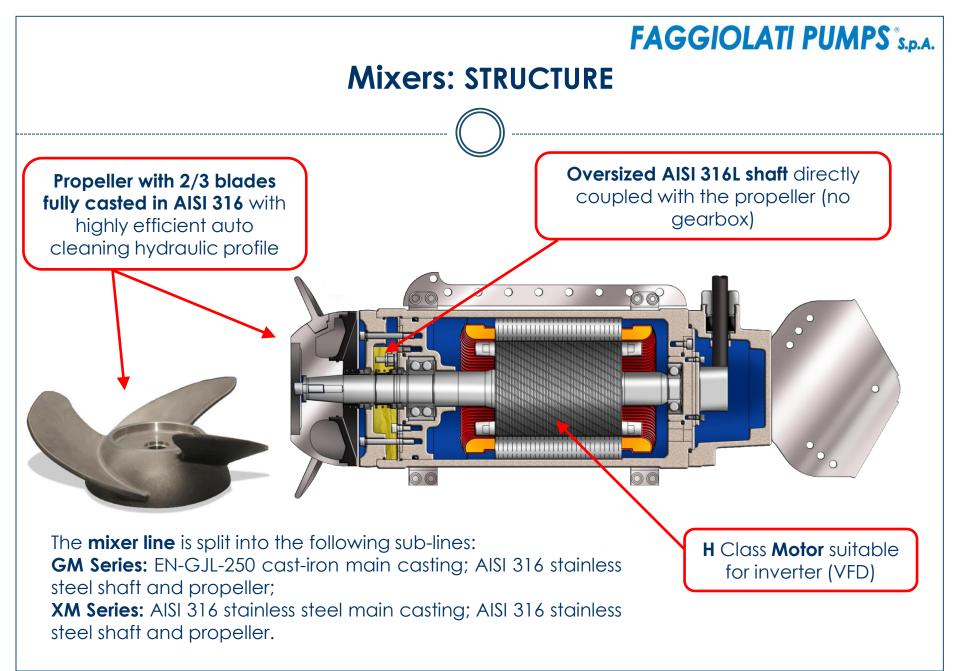
The product line also includes **submersible mixers** (0.6 kW to 10 kW) with electrical multi-polar motors (4-6-8-10-12 poles) for mixing suspensions, slurries and liquids from waste water treatment, paint systems and livestock applications.

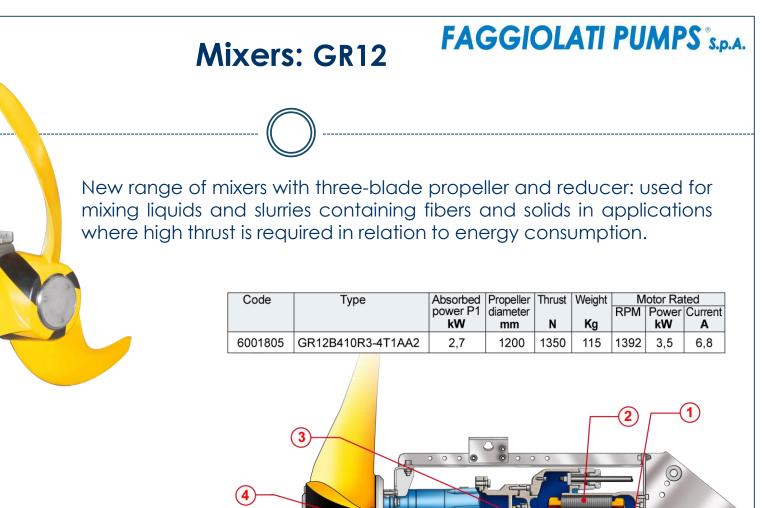
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Serie	Propeller Ø mm	R.P.M. min ⁻¹	Pn kW	Thrust N	
GM17-XM17	176	1450	0,7	120	
GM18-XM18	191	1450	1,4	220	
GM19-XM19	197	1450	2,3	275	
GM30-XM30	300	950	2,3-3,2	300-320	
GM37-XM37	370	750	2	385	
GM40-XM40	400	750	2,5-5,2	420-780	
GM60-XM60	600	500-600	7,5-12	1040-2275	
GR12B410	1200	120	2,7	1350	
GR12B411R2	1200	162	4,9	2350	
GR12B411R1	1200	191	8,2	3060	





6

120 rpm

1) Shafts realized in stainless steel AISI 431.

2) Motor asynchronous threephase 4 poles, insulation class H(180°C).

3) Upper seal: ceramic/graphite.

4) Lower seal: silicon carbide/silicon carbide.

5) Housing: Cast Iron EN-GJL-250

6) Propeller: Polyurethane high efficiency.

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5

Mixers: GR12

NEW RANGE OF MIXERS, MAXIMUM EFFICIENCY, MAXIMUM RELIABILITY

Low speed GR12 mixers: innovative propeller design with very high efficiency and very low energy consumption. Compared with a compact direct-drive mixer, the energy saving can be up to 50%,

0

Code	Туре	Absorbed	Propeller	Thrust	Weight	Motor Rated		
		power P1	diameter		Ū	RPM	Power	Current
		kW	mm	N	Kg		kW	Α
6004167	GR12B411R2-4T1AA2	4,9	1200	2350	120	1436	7,1	13,5
6008414	GR12B411R1-4T1AA2	8,2	1200	3060	120	1436	7,5	14,3



- 1) Shafts realized in stainless steel AISI 431.
- 2) Motor asynchronous threephase 4 poles, insulation class H(180°C).
- 3) Seal: silicon carbide/silicon carbide.
- 4) Housing: Cast Iron EN-GJL-250
- 5) Propeller: Polyurethane high efficiency.

(3)

Mixers: GR12

SIMPLE AND LOW-COST

The new GR12 mixers allow the easy replacement of an existing mixer, as it can be easily installed on the existing 100x100 (mm) guide bar.

Description

- A Submersible mixer
- B Orientable guide bar
- C Lifting crane
- D Bottom plate to floor
- **F** Wall upper orientable support
- H Fixing base
- Bottom plate to floor

Material

Cast iron EN-GJL-250 S.Steel AISI304 Galvanized Steel S.Steel AISI304 Galvanized Steel S.Steel AISI304







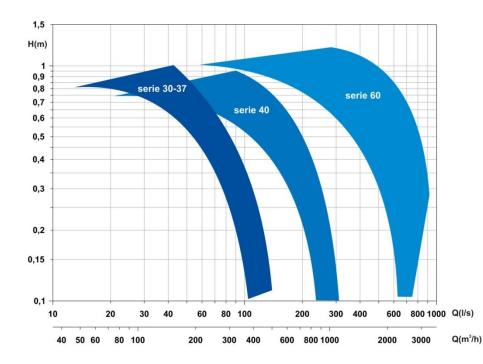
FAGGIOLATI PUMPS[®] S.p.A.

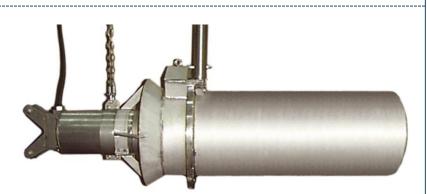
B

H

Products: RECIRCULATION Pumps

Submersible mixer propeller pump (with lowhead considerable flow rate) for active muds inside wastewater treatment plants and nitrification/denitrification applications.



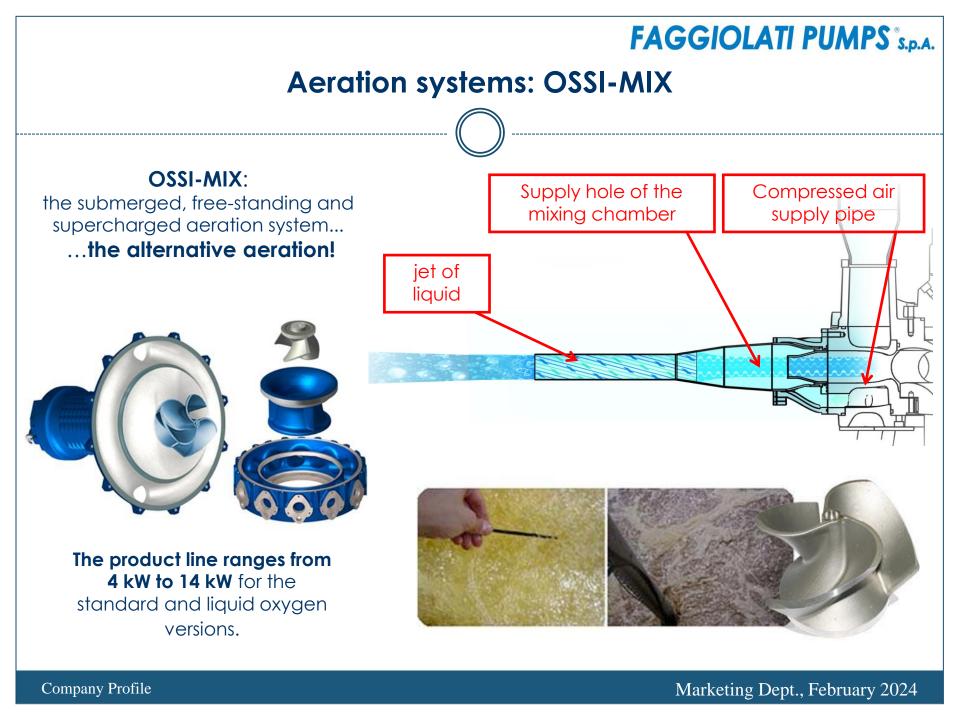




Products: AERATORS

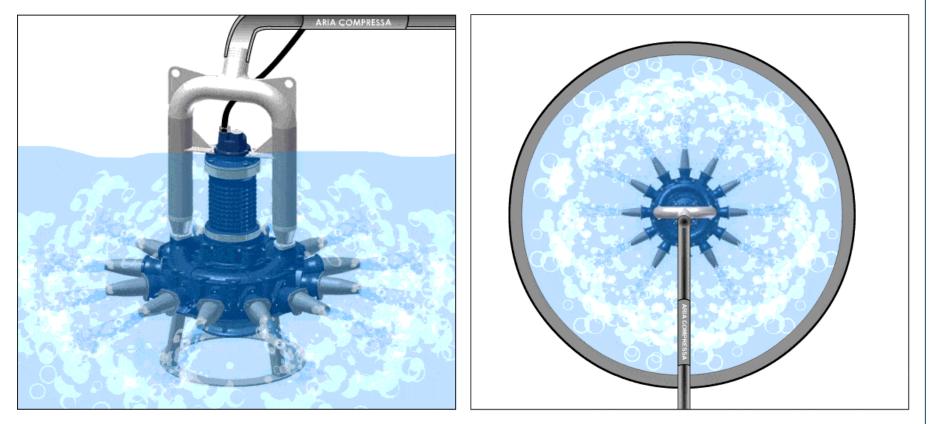
Faggiolati's range of production also includes aeration systems (Ossi-Mix, Arial-Jet and Ossi-Jet) for various types of muds and tank sizes.





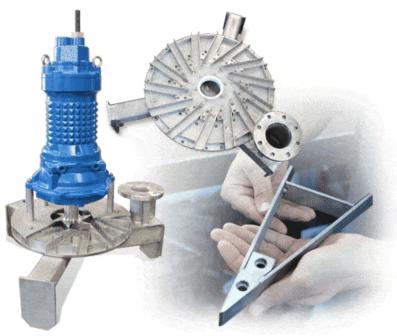
Aeration systems: OSSI-MIX

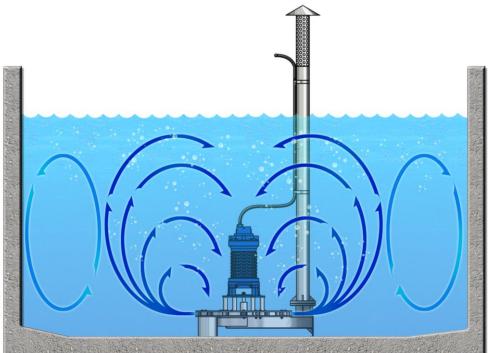
The OSSI-MIX (OM) system is a new development in the sludge aeration machines sector. The constructive architecture of the machine is one of the main innovations of the new OM system and is Patent protected.



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.

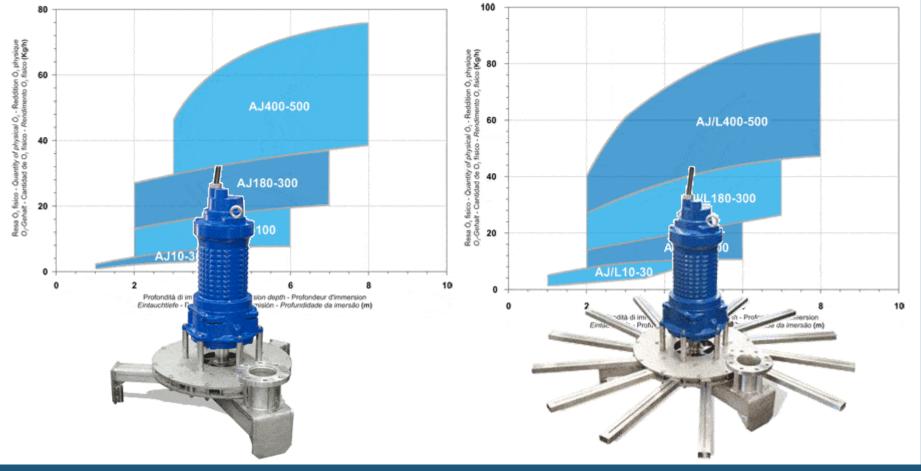




The product line ranges from 2.5 kW to 55 kW in the standard and extended channels versions.

Aeration systems: ARIAL-JET

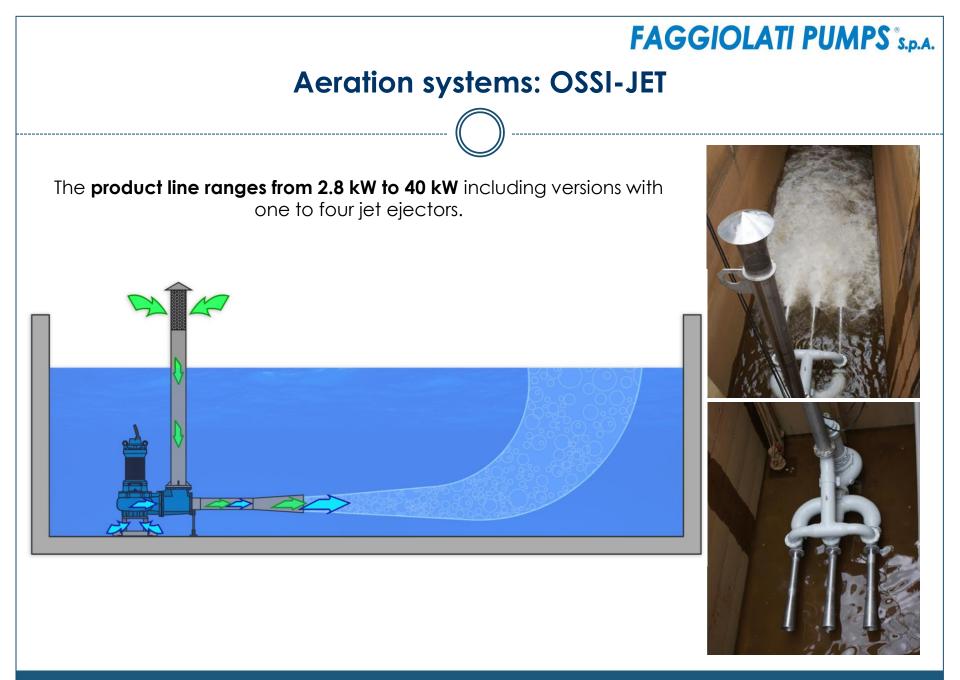
AJ submerged aerators are an extremely flexible and versatile airing system for the treatment of waste-water and in every case air/water mixina is required.



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Company Profile

Products: SPECIAL EXECUTIONS

One of the company's main features is its extreme production flexibility, which enables the production of special equipment for non-standard applications, designed and manufactured according to customer requirements.



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Products: SPECIAL EXECUTIONS

Apart from standard production, Faggiolati Pumps also produces **special products** with customized components, materials and accessories.



Organization System: HEADQUARTER

The headquarters, are located in Macerata, Italy, where the main Sales Office, the Technical R&D dept. and the Factory of our 100% of Faggiolati products, are.



Company Profile

Organization System: RESEARCH & DEVELOPMENT

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



Organization System: PRODUCTION AREA

Components are assembled after being submitted to mechanical and electrical tests and following the related measures. Production includes four assembly lines, divided upon the size of the machines.



Company Profile

Organization System: INTERNAL MECHANICAL PRODUCTION

It is composed of two completely automatic machines equipped with a robot and three numerically controlled lathes.



Company Profile

Organization System: TESTS & INSPECTIONS

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



Company Profile

FAGGIOLATI PUMPS S.p.A. **Documentation: QUALITY & CERTIFICATIONS**

The company operates under ISO 9001 standard since 1997; a well-thought quality plan ensures outstanding production standards.

FAGGIOLATI PUMPS S.D.A. DICHIARAZIONE DI CONFORMITÀ UE - EU DECLARATION OF CONFORMITY - DÉCLARATION UE DE CONFORMITÉ - EU-KONFORMITÄTSERKLÄRUNG

iezione - Section - Section 1	
Abschnitt - Sección - Secção - Pasaen	Descrizione macchina - Machinery description - Description - Maschinenbeschreibung Descripción de la máquina - Descrição da máquina - Описание оборудования
Costruttore - Monufacturer:	
Constructeur - Hersteller - Fabricante: Construtor - Harotoavreva:	FAGGIOLATI PUMPS S.p.A.
Serie - Serial - Série - Cepur:	M206-M263-M207-M271-M272-M273-M208-M209-M210-M211-M213-M216-M218-M225-M406-M471-M472-
	M473-M488-M407-M410-M411-M413-M413-M418-M420-M425-M425-M428-M421-M427-M427-M473-M428-M4059- M610-M411-M415-M4164-M618-M420-M425-M437-M432-M431-M437-M462-M602-M610-M811-M813-M414- M818-M820-M825-M831-M885-M1013-M1016-M1018-M1020-M1028-M1028-M1038-M1216-M1218-M1285
Tipo - Type - Type: Typ - Tipo - Tipo - Twn:	Drenaggio, fognatura - Drainage pumps, sewage - Drainage, eaux d'égout -Dränierung, kanalisation Drenaje, alcantarillado - Drenagem, águas residuals - Дренаж, канализация
Descrizione:	Elettropompe, miscelatori, aeratori, ossigenatori sommergibili per acque sporche e per acque cariche
Description:	Submersible electric pumps, mixer, arial-jet, assi-jet for dirty or charged waters
Description:	Electropompe, agitateurs, aérateurs, oxygénateurs submersibles pour eaux sales et pour eaux chargées
Beschreibung:	Elektropumpen, Mischer, Belüffer, Sauerstoffgeräte, tauchfähige für Schmutzwasser und belastetes Wasser
Descripción:	Bectrobombas, mescladores, alreadores, axigenadores sumergibles para aguas sucias y para aguas cargadas
Descrição:	Bechobombas, misturadores, arejadores, oxigenadores submergíveis para águas sujas e para águas carregadas
Onicorie	Погружные электрические мососы, мешкими, каркторы, оксигенаторы для грязных и заряженных вод
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2006/42/CE	Правила, применимые директивы
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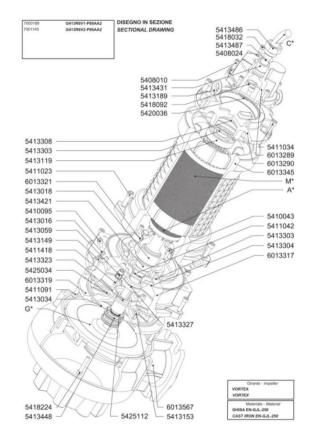




Marketing Dept., February 2024

Customer Care: AFTER SALES SERVICE

Faggiolati Pumps guarantees an operational continuity and the safeguard of our systems through a customer care service aimed at supplying **all the original replacement parts** in a timely manner.





Internal workshop: each machine under reparation is sandblasted and analyzed in order to establish what caused the breakdown.

		FAGGIOLATI PUMPS S.p.A.				
REFERENCES						
Photo	Project, Plant, Contractor	Country	Date			
	Granulated Urea Plant for the Volgafert Urea Project in Russia	Russia	2020			
	ADL project (Hanwha Total Petrochemical Co, Korea)	Korea	2020			
	Waste paper Recycling and De-inking Plant, LENZING Papier GmbH	Austria	2019			
	Power Plant Project Egitto – Burullus	Egypt	2019			
	Monza National Racetrack Paddock - Stormwater tanks	Italy	2018			

Company Profile

REFERENCES

Photo











Project, Plant, Contractor

SABIYA Combined Cycle Power & Desalination Plant, Upgrade Stage 3 (935 MW), MEW Ministry of Electricity and Water of Kuwait ALGHANIM International

TUCUMÁN Thermal Power Plant (270 MW) GE Energy Financial Services / YPF Energía Eléctrica

Umm Al Houl Power IWPP (QATAR) -Purifying plant

ISKEN - SUGÖZÜ Coal-fired Power Plant (1210 MW), STEAG Ensida Energy Services Turkey (SEES)

"PEMBROKE CCCT combined-Cycle Power Plant (2.160 MW), RWE Npower plc" Wales (UK)"



REFERENCES

Photo











Project, Plant, Contractor

Submersible Pumps in superduplex for seawater / cooling water to three different locations: the University of Bergen, a research center for fish and a multimedia center

Le Grand Paris (Subway) Francia

12 SPP (Small Power Plants) project, Gulf MT Corporation, TOYO Engineering Corp.

TMTC Dyeing Industrial Park project, WasteWater Treatment and Water Supply facilities, TMTC Industrial Zone (DYETEC Institution), HUVIS Water Corp. (Vietnam)

AL SAAD Lot 4 Desalination Plant, Brackish Water & Reverse Osmosis (BWRO) plant, VA Tech WABAG, DNGO Saudi Contracting Co.



REFERENCES

Photo











Project, Plant, Contractor

RAPID (Refinery And Petrochemical Integrated Development) project, Demineralized Water Plant & Condensate Polisher, PETRONAS, ENVIPURE

ZUBAIR Oil Field Development project, Hammar Mishrif New Degassing Station (DGS)

MUSCAT Municipality, Storm Water Pumping Station

Waste water treatment plant - Project Touatgaz (Algeria) Supply of submersible pumps in special cast iron GS400 spheroidal

Alcantarillado Sanitario Waste Water Pumping Stations, Consorcio Cambyreta Ciudad de Encarnación, Paraguay Record Electric Saeca



Conclusion: COME AND VISIT US!



Thank you for the attention