



A “Leader” of Pumps for Industry

— ***Gruppo Aturia*** —



*Aturia* because water, essential for the development of any form of life, has always been its natural element.

*Aturia* because its central spiral recalls the impeller of a pump. That's why we chose it as our trademark.

A stylized, handwritten signature or logo. It consists of several curved lines that form a shape reminiscent of a signature or a brand mark. The lines are dark and have a slightly irregular, hand-drawn quality.

ATURIA <sup>1</sup> (from Aturus, nowadays known as Adour, a river of the Aquitaine region). - Kind of extinct cephalopod molluscs. Introduced by the Broom institute in 1838, it is part of the Nautilidae Owen family. It has a discoidal involute shell. Smooth, with a high opening, rounded on the outer side, with a chambered structure and sinuous septa, whose sutures form a deep lobe on each side. The siphon is surrounded by long, funnel-shaped collars, stretching from one septum to the other. It also includes many species distributed on land ranging from the Cretaceous to the Miocene era, when they reach the widest possible dissemination.

<sup>1</sup> From the Treccani Encyclopedia

# A long history full of important experiences



Aturia began to operate in the Centrifugal Pumps sector in 1927 and became a leader in the Submersible Electric Pumps field by patenting the Submersible Motor in 1946. In 1960 it extended its markets to countries in the Mediterranean, America and Asia.

Over time Aturia acquired four top Italian companies: Rotos (1990), Marelli (1990), Audoli & Bertola (2003) and Aris Chiappa (2009).



Rotos was set up in 1919 and manufactured electrical motors, monobloc pumps, multistage pumps and vertical pumps. In 1962 it entered French group GUINARD and became a development centre for multistage pumps.

Based on this experience, it started to produce pumps for the process industry (ISO 2858 and API 610). In 2005 it started to produce magnetic drive pumps in its plant based in Taglio di Po.



Founded in 1891, it began to manufacture electrical motors and centrifugal pumps in 1898.

The company was acquired by Aturia together with Rotos in 1990.

Thanks to this acquisition, Gruppo Aturia extended its range of products considerably by including GIEM and ITEM's pumps (monobloc pumps, split case pumps and large-capacity pumps).



The company started producing vertical pumps in 1890 and over the years it strengthened its presence on the market in terms of applications for the heavy industry (steel plants, cooling systems, power plants and the marine sector).

Gruppo Aturia acquired Audoli & Bertola in 2003, thus improving its presence in the industrial sector. Its office in Turin is currently a centre of excellence for fire-fighting systems (NFPA20, FM).



G. Chiappa Fonderie was established in Turin in 1921 as a steel plant and started to manufacture bronze, aluminium and cast iron casts.

In 1940 it began to produce vertical pumps.

For over forty years, in partnership with the world's top gas turbine manufacturers, it has been developing pumps specifically designed for lubrication services.

## Gruppo Aturia



### GRUPPO ATURIA S.p.A.

Gessate (Milan): 20.000 sq m  
(Covered surface)

GRUPPO ATURIA's head office

Tel. +39-0295423200

E-mail ITALY: [vendite@gruppoaturia.it](mailto:vendite@gruppoaturia.it)

E-mail EXPORT: [export@gruppoaturia.com](mailto:export@gruppoaturia.com)



TURIN: 3.000 sq m  
(Covered surface)

Production site for Fire-fighting units.



Taglio di Po (Rovigo): 3.000 sq m  
(Covered surface)

Production site for Magnetic drive pumps.





In order to acquire greater expertise and experience for particularly demanding applications (chemical, petrochemical and nuclear sector), Gruppe Rüttschi was acquired by Gruppo Aturia in 2006.

### RÜTSCHI FLUID AG



Brugg (Switzerland): 5.000 sq m  
(Covered surface)  
RÜTSCHI FLUID AG's head office  
production site for RÜTSCHI process pumps and  
Sealless/Canned pumps.  
Retailer for GRUPPO ATURIA's pumps.

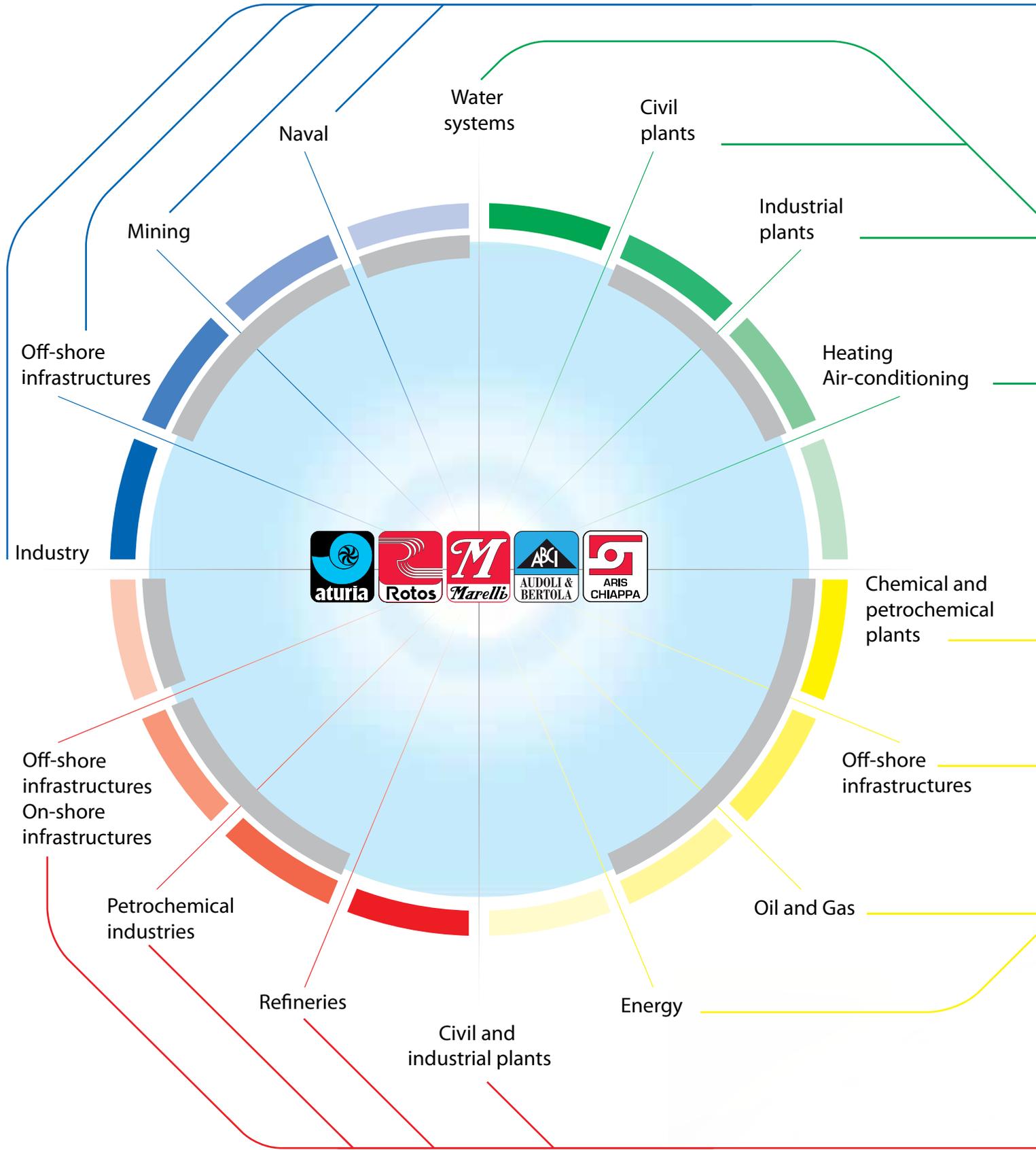
### POMPES RÜTSCHI SAS



Mulhouse (France): 2.000 sq m  
(Covered surface)  
POMPES RÜTSCHI SAS' head office  
production site for RÜTSCHI process pumps and  
vertical pumps for lubrication systems.  
Retailer for GRUPPO ATURIA's pumps.

Gruppo Aturia and Gruppe Rüttschi operate all over the world with a network of agents, retailers and service centres.





# A "Leader" of Pump for Industry



SUBMERSIBLE



SURFACE



PROCESS



FIRE FIGHTING





# SUBMERSIBLE applications



The installation of submersible electric pumps for the past 60 years allowed Gruppo Aturia to acquire a wealth of application experience in a range of sectors.

Submersible electric pumps, designed to lift water from wells, have replaced vertical axis pumps. By using diversified materials such as bronze, stainless steel and Duplex, today they are successfully used for heavy-duty applications that require great reliability, such as the Industry, Off-shore infrastructures, Mining and Naval sectors.

Using pumps submersible in special vertical or horizontal cylindrical tanks allows to design systems to increase pressure by reducing space and operating noise compared with traditional solutions with surface pumps.

To offer Costumers hydraulic features with the best performances, the wide capacity and head range is covered with more than five hundred types of pumpsets.

In recent years Aturia introduced a range of submersible motors suitable for hot water by adopting new design solutions.

**CAST IRON  
SUBMERSIBLE  
PUMPSETS**



**BRONZE, STAINLESS  
STEEL / DUPLEX  
SUBMERSIBLE PUMPSETS**



Size	6"-14"	14"-25"
Poles	2	4
Capacity [m <sup>3</sup> /h]	7 - 800	up to 1800
Head [m]	10 - 700	up to 160
Power [kW]	up to 400	up to 300

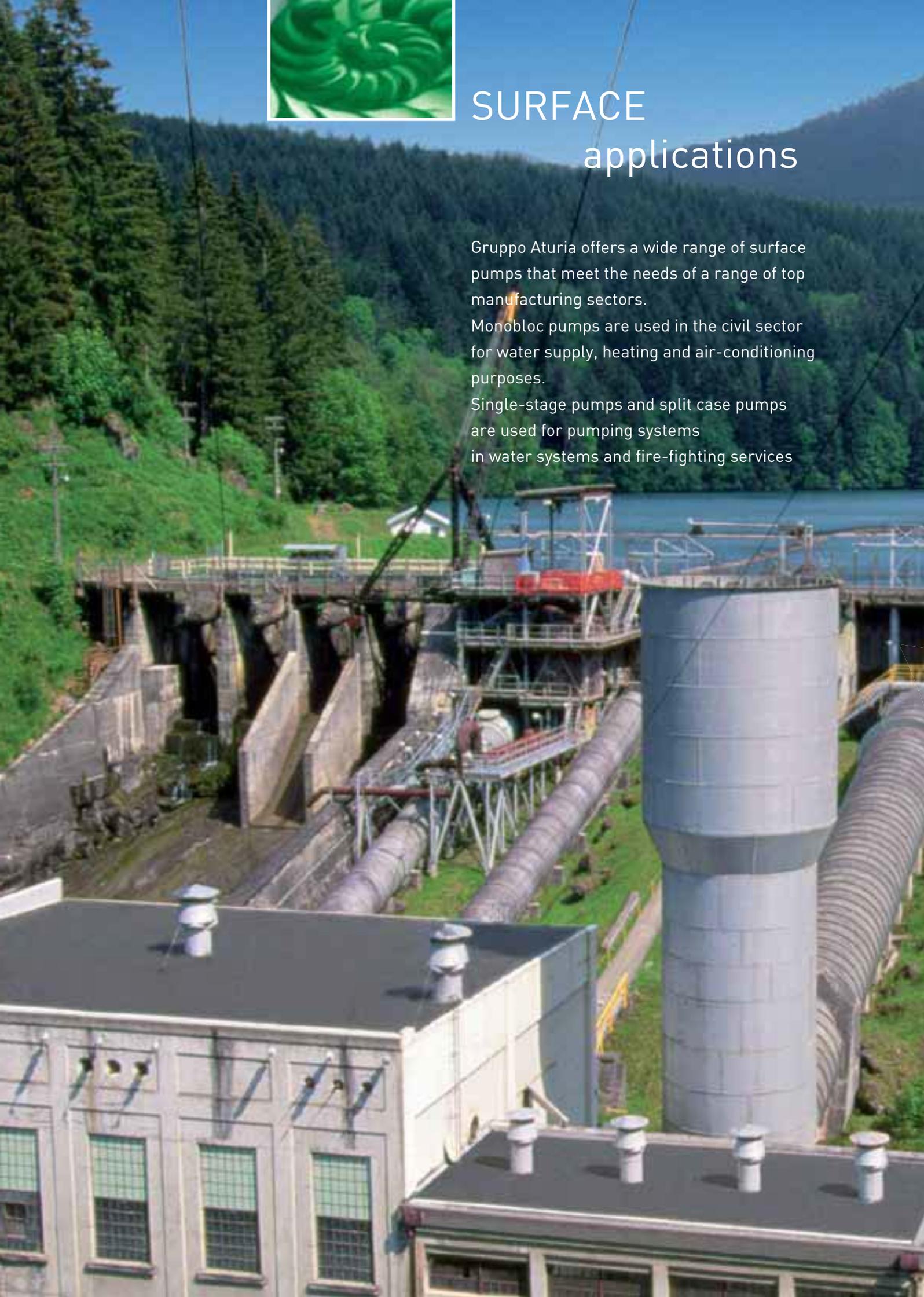


# SURFACE applications

Gruppo Aturia offers a wide range of surface pumps that meet the needs of a range of top manufacturing sectors.

Monobloc pumps are used in the civil sector for water supply, heating and air-conditioning purposes.

Single-stage pumps and split case pumps are used for pumping systems in water systems and fire-fighting services



and in the clean-water industry when large capacities and limited heads are required. As well as for pumping stations, multistage pumps are also used for artificial snowing, reverse osmosis and for more sophisticated services such as boiler feeding. Vertical turbine pumps are used in recirculation systems for industrial water, power plants, steel mills, in drainage systems and in fish-farming sites.

**"IN LINE"**  
**MONOBLOC PUMPS**  
 DIN 24255 - EN 733  
**SINGLE-STAGE PUMPS DIN**  
 24255 - EN 733

**RADIAL MULTISTAGE PUMPS**

**SPLIT CASE PUMPS**

**VERTICAL TURBINE PUMPS**



Size [DN]	25 - 100	25 - 250
Poles	2	4
Capacity [m³/h]	6 - 330	3 - 1300
Head [m]	9 - 90	2 - 90
Impeller Dia [mm]	up to 250	up to 500
Power [kW]	up to 75	up to 315

Size [DN]	25 - 125	25 - 250
Poles	2	4
Capacity [m³/h]	3 - 400	3 - 750
Head [m]	up to 600	up to 350
Impeller Dia [mm]	up to 320	up to 415
Power [kW]	up to 450	up to 700

Size [DN]	150 - 600
Poles	2 - 4 - 6
Capacity [m³/h]	200 - 4000
Head [m]	10 - 150
Impeller Dia [mm]	up to 650
Power [kW]	up to 800

Size [DN]	100 - 1000
Poles	2 - 4 - 6 - 8 - 10 - 12
Capacity [m³/h]	10 - 25000
Head [m]	3 - 400
Impeller Dia [mm]	up to 1350
Power [kW]	up to 1000



# PROCESS applications

Thanks to the wealth of experience acquired with the Guinard Group, ROTOS operates in sectors involving extremely heavy-duty services that require high-tech pumps compliant with international standards required for such applications.

Pumps manufactured in compliance with the API 610, ISO 2858 and ISO 5199 standards find their natural application in chemical and petrochemical plants, as well as in oil refineries.

API 685 and ISO 2858 magnetic drive pumps are used for applications that require top reliability and safety to pump hazardous chemical products (toxic, flammable).

Liquefied gases and volatile liquids can be conveyed with “barrel” pump versions.

For other special sectors, such as geothermics, reverse osmosis, desalination, off-shore, cryogenic fluids, ROTOS’ range of pumps is suited to meet any specific application requirement.





**HORIZONTAL AND VERTICAL  
SINGLE-STAGE PUMPS**  
ISO 2858, ISO 5199

AISI 316  
DUPLEX  
HASTELLOY



Size [DN]	32 - 125	32 - 300
Poles	2	4
Capacity [m³/h]	5 - 300	3 - 1300
Head [m]	up to 140	up to 100
Impeller Dia [mm]	up to 315	up to 570
Power [kW]	up to 200	up to 315

**PROCESS PUMPS API 610**



Size [DN]	1 1/2" up to 12"
Poles	2      4
Capacity [m³/h]	8 - 1500    4 - 1500
Head [m]	up to 350    up to 140
Impeller Dia [mm]	up to 520    up to 610
Power [kW]	up to 1500    up to 700

**MAGNETIC DRIVE PUMPS**



Size [DN]	15 up to 100	
Poles	2	4
Capacity [m³/h]	8 - 150	3 - 100
Head [m]	up to 100	up to 140
Max. Pressure [bar]	25	
Max. Temper. [°C]	300	

**VERTICAL "BARREL" PUMPS**



Size [DN]	2" - 10"	4" - 28"
Poles	2	4
Capacity [m³/h]	up to 200	up to 1000
Head [m]	up to 400	up to 200
Power [kW]	up to 200	up to 600
Barrel Dia	6" - 18"	6" - 28"



# FIRE FIGHTING applications

With its "Audoli&Bertola" Division, Gruppo Aturia operates in the fire-fighting field by supplying pumping units that comply with European Standards (EN 12845 and EN 12259-12) and the US standard (NFPA 20).

Audoli&Bertola's technical expertise allows to easily operate in civil and industrial sectors and comply with the strictest specifications required by refineries, petrochemical industries, off-shore infrastructures, platforms and in-shore infrastructures.

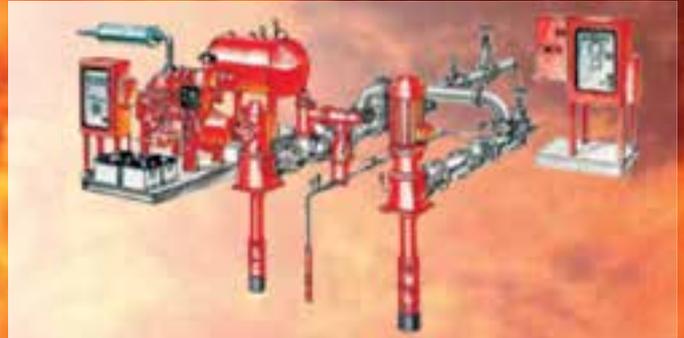
Audoli&Bertola has developed a range of products for explosive risk areas: many products have been made with diesel and gas engines, suitable to operate in EExd II B or C Atex areas. Gruppo Aturia can supply an extensive range of centrifugal pumps for fire-fighting services, both with a vertical and a horizontal design.



Audoli&Bertola is the only Pump Manufacturer in Europe that was given Factory Mutual's approval for:

- Vertical Pumps: from 500 RPM to 4000 RPM, at 50 and at 60 Hz.
- Split Case Pumps: from 750 RPM to 2000 RPM, at 50 and at 60 Hz.

#### PUMPING SYSTEMS VERTICAL PUMPS



#### PUMPING SYSTEMS SPLIT CASE PUMPS

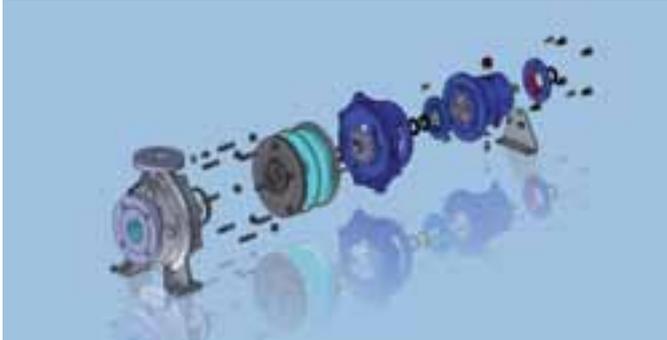




888R  
888R

WORKING TOGETHER  
MEANS WINNING

# An integrated and flexible cycle: from design to shipment



Thanks to integrated design systems, 3D models and FEM analysis, Gruppo Aturia offers products in line with the state of the art. The product cycle starts at the design stage where, thanks to our many years of experience and a database with over a thousand hydraulics, Gruppo Aturia is able to develop pumps for special fluids, with power values that reach 1000 kW, pressure values up to 150 bar and temperatures up to 500°C.



Gruppo Aturia is divided into three specialised Units:

- \_ Gessate (Milan) Manufacturing of pumps with mechanical or soft packing seal
- \_ Taglio di Po (Rovigo) Production of sealless pumps
- \_ S. Mauro Torinese (Turin) Design and assembly of pumping systems for fire-fighting plants

The various steps of the industrial process take place in just one Production Unit (Gessate). This helps the company's various departments work together.



We recently achieved the important objective of fitting every Unit with a modern Testing Room: in our plants in Gessate and S. Mauro Torinese we can test pumps with powers up to 650 kW, capacities up to 8000 m<sup>3</sup>/h and pressure values up to 120 bar. Our plant in Taglio di Po has been designed for sealless pumps intended for applications in the chemical sector.

Along with periodic tests on the performance of standard products, the Testing Room also conducts tests in front of customers or certifying bodies.



To adequately meet requests from its Customers, Gruppo Aturia invests considerable financial resources in the management of its components warehouse: thanks to a fast assembly and a vast availability of components we ensure prompt delivery of standard products. Painting and packing is accurately carried out in accordance with specifications and transport conditions.

# Certified Quality System

## Quality Control

Gruppo Aturia's commitment to improve Quality has been acknowledged by the Lloyd's Register Group with the "Quality System" certification.

The quality of the product is guaranteed by the "Total Control" of all its components. The pumps' performance is checked in the Testing Room.

Gruppo Aturia has set up a metrological lab to test parts with a coordinate-measuring machine and traditional instruments calibrated with latest-generation software.

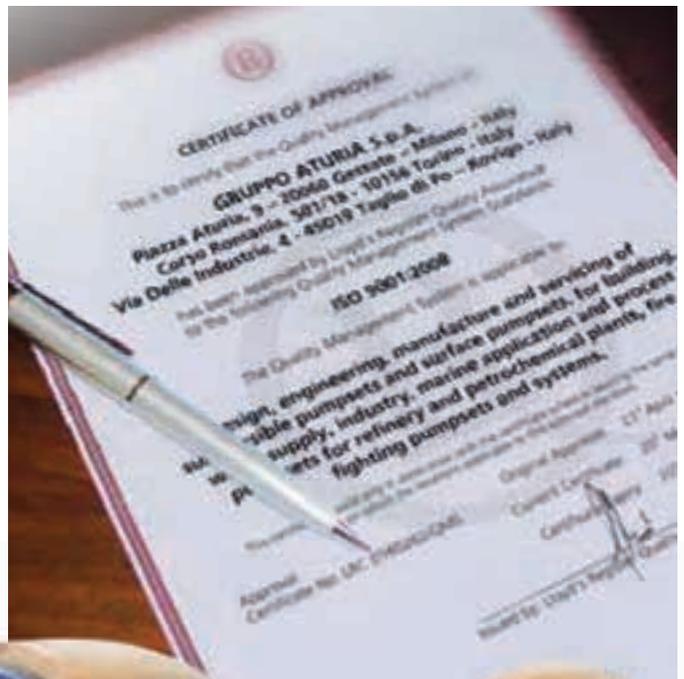
The wide range of NC machines allows operators to easily achieve the precision requested to process the components.

The online management of project and design specifications ensures the latest updated information is readily available.

The IT management system and the collection of processing data also allows to trace products at every stage of the process.

Gruppo Aturia invests in qualified human resources and takes care of its staff's professional services with training courses.

Operators manage machinery and drawings and control components autonomously and safely.







**Gruppo Aturia**



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