

PUMPING SOLUTIONS FOR AQUACULTURE

caprari



why choose Caprari?

Aquaculture systems require constant, controlled water circulation. Caprari provides high-efficiency solutions designed to optimize system performance and fish well-being.

High efficiency & flow stability

Smooth and consistent water movement across tanks, raceways or cages, minimizing stress on fish and optimizing feed conversion rates.

Corrosion-resistant materials

Durable construction and Caprari International patents ensure reliable performance even in aggressive saline environments or wastewater from fish processing.

Versatile installation options

Horizontal, vertical and submersible pump configurations support diverse aquaculture setups—from inland farms to offshore cages.

Easy maintenance

Pumps with modular designs or easy-to-clean components minimize downtime in aquaculture facilities.

Smart monitoring & control

Green Box enables easy integration with automated panels for precise water control, minimizing downtime and maintenance.

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Aquaculture pump applications

Ideal for

Water intake

Water circulation and exchange

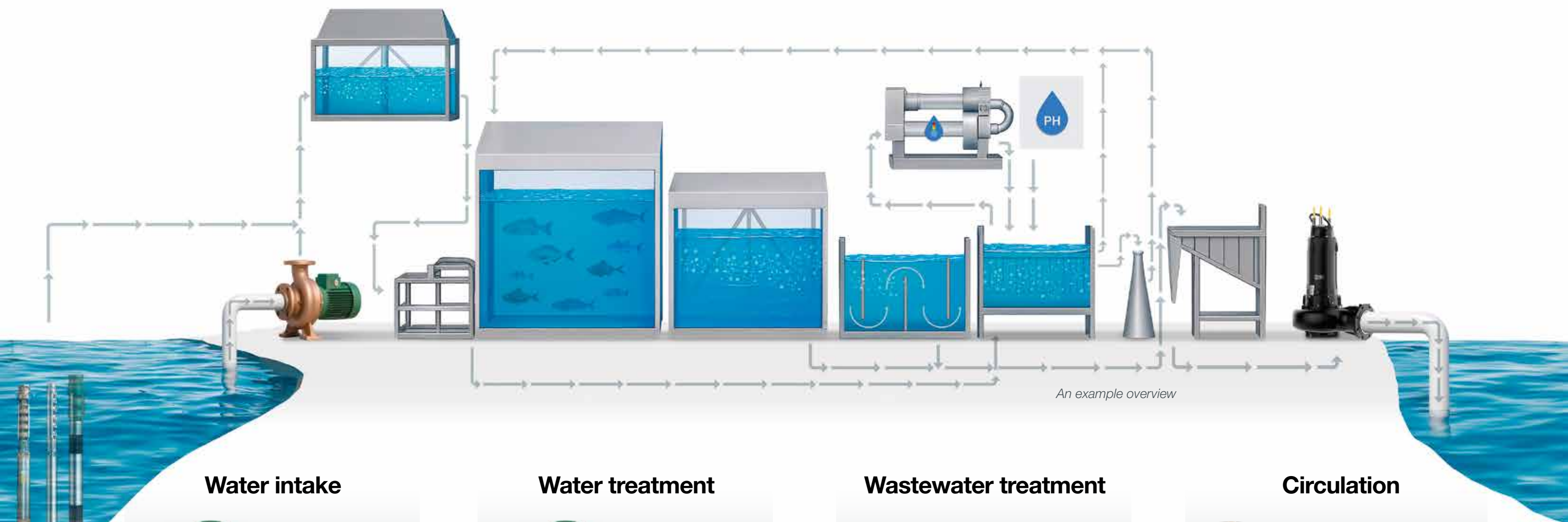
Wastewater management

Water temperature control

Live fish transport

Filter cleaning

Caprari products in aquaculture processing



Water intake

- In-line pumps
NRC
- End-suction pumps
NC | NCD | NMC
- Submersible pumps
E6÷22
- Wastewater pumps
K | KK | D | M
- Split case pumps
SCC

Water treatment

- In-line pumps
NRC
- Multi-stage pumps
CVX | CVD | HV
- Booster systems
- End-suction pumps
NC | NCD | NMC

Wastewater treatment

- Submersible pumps
E6÷22
- Wastewater pumps
K | KK | D | M

Circulation

- End-suction pumps
NC | NCD | NMC
- In-line pumps
NRC
- Wastewater pumps
K | KK | D | M

E6÷22

Submersible groundwater pumps



FEATURES & BENEFITS

- High efficiency
- HT Thrust Bearing (*Caprari International Patent*)
- Defender (*Caprari International Patent*)
- Customization

MATERIALS

- Cast iron
- Stainless steel
- Bronze
- Duplex
- Super-Duplex

TECHNICAL DATA

Q - Max Flow	420 l/s
H - Head max	700 m
Power up to	440 kW
Borehole sizes	6" to 22"

APPLICATIONS

Water Intake | Pressure Boosting | Industrial Application

NC / NCD / NMC

End-suction pump



FEATURES & BENEFITS

- Compact design
- Reliable
- Standard dimensions
- Easy maintenance
- Back pull-out system
- Efficiency above 80%
- Monobloc or stub-shaft

MATERIALS

- Cast iron
- Stainless steel
- Bronze
- Duplex

TECHNICAL DATA

Q - Max Flow	450 l/s
H - Head max	160 m
Flange size	1-1/4 " to 10"

APPLICATIONS

Oxygenation | Heating | Cooling Media

CVX / CVD / HV

Multi-stage vertical centrifugal pumps



FEATURES & BENEFITS

- High pressure range
- Flexibility
- VSD onboard

MATERIALS

- Cast iron
- Stainless steel
- Bronze

TECHNICAL DATA

Q - Max Flow	50 l/s
H - Head max	315 m
Flange size	1" to 6"

APPLICATIONS

Wash and Clean | Water Treatment | Water Pressure Boosting

NRC

In-line pumps



FEATURES & BENEFITS

- Compact Design
- High Reliability
- High Efficiency
- VSD onboard

MATERIALS

- Cast iron
- Stainless steel
- Bronze

TECHNICAL DATA

Q - Max Flow	39 l/s
H - Head max	85 m
Flange size	1-1/4" to 5"

APPLICATIONS

Water recirculation - Heating | Cooling Media | Pressure Boosting

SOC

Split case pumps



FEATURES & BENEFITS

- Easy installation and maintenance
- Robustness
- Wide range
- Reliability

MATERIALS

- Cast iron
- Stainless steel
- Bronze
- Duplex

TECHNICAL DATA

Q - Max Flow	1,300 l/s
H - Head max	260 m
Flange size	2-1/2" to 14"

APPLICATIONS

Water Intake | Oxygenation | Recirculation | Heating/Cooling

KK

Surface wastewater pumps



FEATURES & BENEFITS

- Vertical/Horizontal installation
- Non Stop System
- High efficiency (IE4 Motor)
- Easy maintenance

MATERIALS

- Cast iron
- Stainless steel
- Bronze
- Epoxy coated cast iron

TECHNICAL DATA

Q - Max Flow	750 l/s
H - Head max	65 m
Flange size	3" to 14"

APPLICATIONS

Treatment and transport of wastewater | Industry | Stormwater

K

Submersible wastewater pump



FEATURES & BENEFITS

- Drywet System (*Caprari International Patent*)
- Fixing System (*Caprari International Patent*)
- Non Stop System
- High Efficiency (IE3 Motor)
- Atex Version

MATERIALS

- Cast iron
- Stainless steel
- Bronze
- Epoxy coated cast iron

TECHNICAL DATA

Q - Max Flow	1,700 l/s
H - Head max	66 m
Flange size	1-1/2" to 20"
Motor size	Up to 345 kW

APPLICATIONS

Treatment and transport of wastewater | Industry | Wastewater

D / M

Submersible drainage pumps



FEATURES & BENEFITS

- Easy maintenance
- Reliable
- Wide range

MATERIALS

- Cast iron
- Stainless steel
- Technopolymer

TECHNICAL DATA

Q - Max Flow	90 l/s
H - Head max	65 m
Flange size	1-1/4" to 6"

APPLICATIONS

Drainage | Sewage | Wastewater

BOOSTER

Multi-pump booster pump systems



FEATURES & BENEFITS

- Easy installation
- High reliability
- High efficiency
- Customization

MATERIALS

- Cast iron
- Stainless steel
- Bronze

TECHNICAL DATA

Q - Max Flow	400 l/s
H - Head max	140 m
Flange sizes	1-1/4" to 10"

CONTROL SYSTEM

Variable frequency drives

Due to the large daily load variations in water and wastewater treatment plants, the implementation of a parameter control system can generate significant savings compared to traditional solutions. The wide range of available accessories and solutions makes the system highly customizable.

The fast and simple configuration settings for pumping systems reduce installation time, ensuring maximum energy efficiency and perfect motor control.



FEATURES & BENEFITS

- Low energy consumption
- Low maintenance costs
- Low operating costs
- Quick and easy configuration

NMC / CVX / CVD / NRC

Pumps with vsd onboard

Pumps equipped with VSD onboard, to provide the best performance control and lead to optimal operation and maximum efficiency.



APPLICATION

Surface pumps with power up to 37kW



Remote control device

The Caprari GREEN BOX connects all electric pump to a smartphone, tablet or PC via the Caprari App. The device allows the user to monitor, collect, manage and download performance data (flow rate, pressure, temperature, vibration, etc.). The device's active function allows the user to remotely modify the electric pumps' parameters and to stop/restart the machines if the set thresholds are exceeded.

- The patented software keeps the pump operating at its best efficiency point (BEP), thus reducing energy consumption: a unique solution in the pumping industry
- The NON-STOP anti-clogging function allows the counter rotation of the pump, which is ideal in case of block



Coatings for your seawater applications

Caprari's aim through surface engineering is to ensure the reliable functioning of its products by improving durability, resistance to erosion, corrosion and abrasive and adhesive wear. An uncoated pump will in fact suffer a drop in performance over time due to corrosion and subsequent loss of material; protective coating slows this process down.

Advantages of ceramic coatings

Provide excellent resistance to chemical attack, erosion, and corrosion.
Ensure greater operational reliability and extended equipment lifespan.

How to monitor the wear

Coating layers to indicate the level of wear for timely scheduling of preventive maintenance.
Possibility to rebuild or recoat internal components instead of replacing them.
In addition to the internal coatings, all coated pumps are delivered with additional layers of external paint so as to provide a ISO corrosion rating of C4-H indicating suitability for exterior industrial and high salinity coastal areas, which is typically 15 to 25 years before significant maintenance is needed.



Properties

- Complete surface preparation before applying the coating
- Resistant to high temperatures
- High wear resistance
- Strong chemical resistance
- Smooth surface
- Barrier-grade coating
- Quality control of the coating during the process

Benefits

- Extended pump life
- Increased liability and lifespan
- Better performance
- Corrosion and Erosion shield
- Eco-friendly footprint

Customized solutions

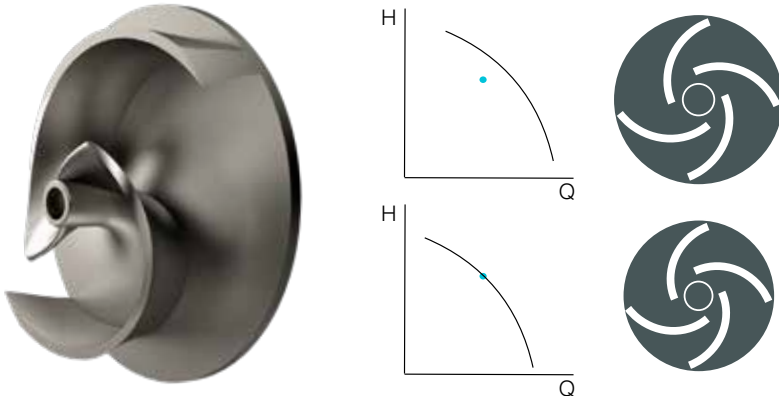
Different materials for different applications

The selection of different materials is tailored to the operating conditions and specific requirements of the application.
With the support of our experts, you will find the ideal solution, ensuring optimal performance and long-lasting durability.

CASING	IMPELLER	MEC. SEAL	SHAFT	WEAR RING
				
CAST IRON	CAST IRON	SILICON CARBIDE	AISI 303	EPDM
		CERAMIC	AISI 304 / 304L	NBR AND
BRONZE	BRONZE	GRAPHITE	AISI 316 / 316L	HNBR
		WIDIA	AISI 420 / 420B	AISI 304
CASTED / STAMPED SS AISI 304 AND AISI 316	CASTED / STAMPED SS AISI 304 AND AISI 316		AISI 430 / 430F	AISI 316
			AISI 431	BRONZE
DUPLEX SUPER-DUPLEX	DUPLEX SUPER-DUPLEX		AISI 630	CAST IRON
			DUPLEX SUPER-DUPLEX	

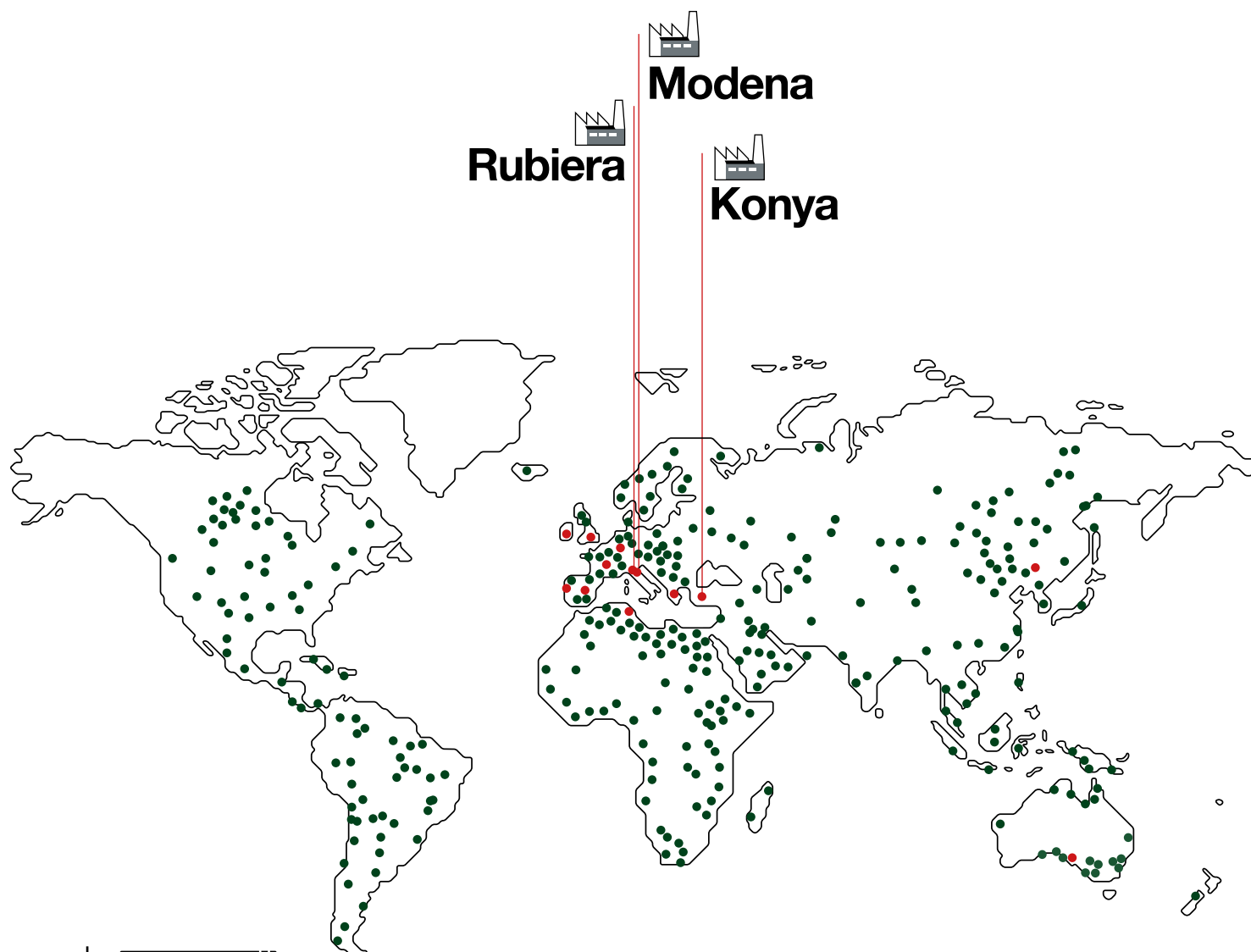
Impeller diameter optimization

We offer the possibility to customize the impeller diameter to optimize the pump's performance curve, adapting it to the customer's required operating point.



global presence, local service

Since 1945, Caprari has been designing and manufacturing efficient and sustainable water pumping solutions, investing in technology and innovation. With a global presence and international sales network, we provide top-level support, ensuring quality, reliability, and rapid availability of products and spare parts worldwide.



consulting

we collect your request
to create a tailor-made solution



original spare parts

always available



repairs and maintenance

on site and in the workshop



training and support

Multiple support
programs available



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