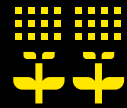


IRRIGATION

Pumping solutions range for contemporary agriculture needs



**MOTOPOMPE IRRIGATION
EUROMAST PUMPS**
www.motopompe-irrigation.com

We care about your watering.

TRUE POWER COMES FROM GREAT EXPERIENCE.

We give practical responses to contemporary agriculture needs.

For more than forty years, we've been addressing always new pumping problems with a full range of Motor Pump Multifunctional Groups. Technological advancements to ensure **high-performance machines**, that combine **extensive customization capabilities** with the best components on the market and also innovative design **with functional solutions**. Yes, but there's more: our efficient machines guarantee remarkably reduced consumption for a great return on investment over time. **We understand your needs, and support your business.**



INNOVATION

INNOVATIVE PRODUCTS

- research & development
- Design & patent



PERSONALISATION

MADE ON YOUR NEEDS

- highly customized solutions and tailor made products

MAIN PRODUCTS AND SOLUTIONS



CORNELL MOTOR PUMPS

high performances for demanding applications



LINEAR MOTOR PUMPS

solutions for farm pivot irrigation



STANDARD MOTOR PUMPS

custom solutions for different type of flow



GREENFLOW

multifunctional pump unit



ELECTRIC PUMPS

energy supply



RIVERSCREEN™

dependable water supply self-cleaning operation

CORNELL PUMPS. EFFICIENT BY DESIGN.

Cornell began manufacturing pumps for agriculture since its launch, in 1946. From then on, Cornell engineers kept making improvements in the design and functions of their pumps.

There are many features unique, such as **Cycloseal**, **Run-Dry®** and **Redi-Prime®**, that enable Cornell pumps to handle the most demanding applications. These features, along with **efficiencies up to 89%**, are the reasons why Cornell is the benchmark in the agricultural pumps industry.



RELIABILITY

LESS WEAR

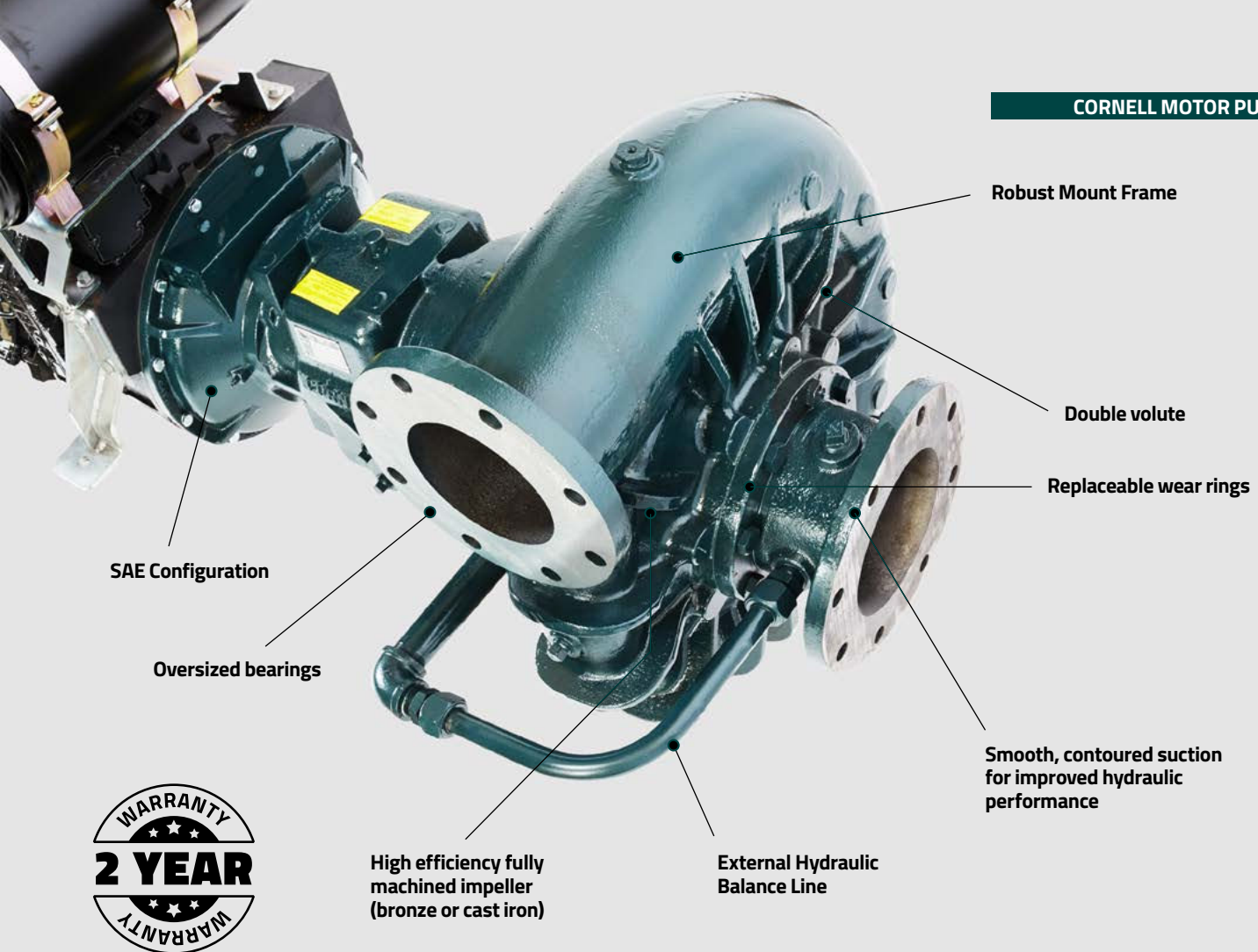
- less maintenance
- less parts
- less downtime



TIME SAVING

EFFICIENCY

- less fuel consumption
- oversized shaft & bearings
- easily replaceable wear parts



TOP QUALITY MATERIALS

All Cornell irrigation pumps are constructed with top quality materials. Cornell irrigation pumps are cast iron, bronze fitted or all iron construction. Optional materials are available for abrasive or caustic applications. Standard features include balanced impellers, heavy-duty shafts, replaceable shaft sleeves, and replaceable wear rings.

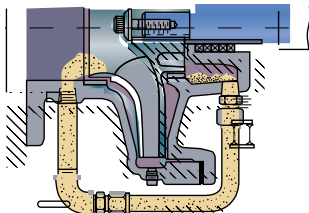
ENERGY EFFICIENCY

Features unique to Cornell pumps, such as Cycloseal, Run-Dry®, and Redi-Prime®, allow Cornell pumps to handle the most demanding applications. These features, coupled with efficiencies up to 89%, are why Cornell is considered the benchmark in agricultural pumps.



FEATURES & BENEFITS

- ✓ Replaceable wear rings
- ✓ Double volute
- ✓ Various mounting configurations
- ✓ Robust Mount Frame
- ✓ Shower curtain shield on close-coupled models
- ✓ Oversized bearings
- ✓ High efficiency
- ✓ Fully-machined impellers
- ✓ Efficiencies up to 89%
- ✓ Heavy walled castings
- ✓ External balance line
- ✓ Two-year warranty



EXTERNAL HYDRAULIC BALANCE LINE

Cornell's external hydraulic balance line equalizes pressure between the impeller hub area and the pump suction to reduce axial loading acting on the impeller, shaft and bearings. The balance line also assists in moving sand and silt from the stuffing box to the low pressure area at the pump suction, reducing wear of the wetted parts.

DOUBLE VOLUTE

The double volute system effectively balances forces within the pump to reduce radial load, shaft deflection and fatigue. This eliminates shaft breakage and extends the service life of packing and mechanical seals, wear rings and bearings while maintaining high hydraulic efficiency.

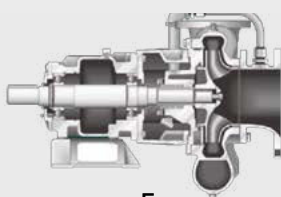


SIMPLE VOLUTE

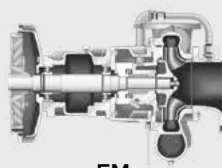


DOUBLE VOLUTE

MOUNTING CONFIGURATIONS



F
Frame Mount



EM
Engine Mount

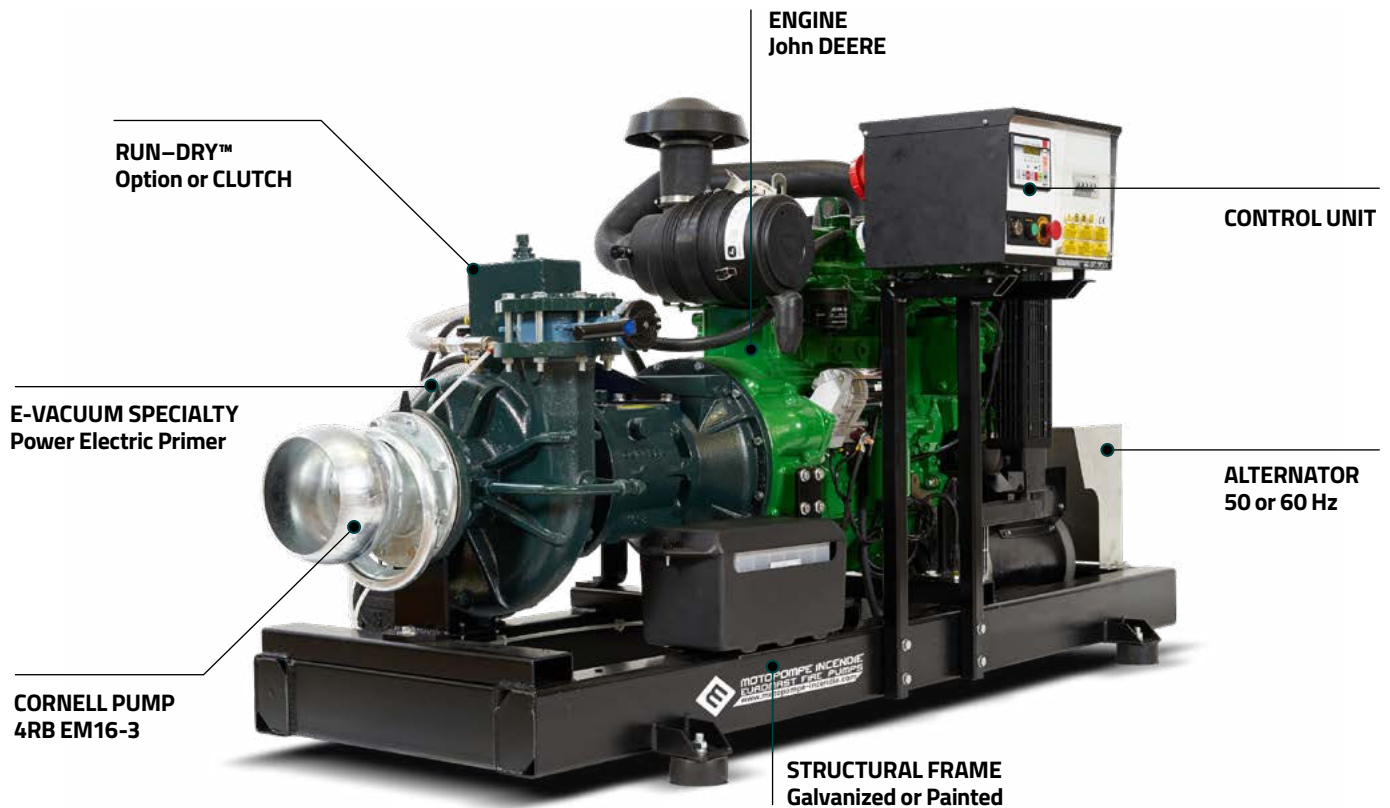


CC
Close-Coupled

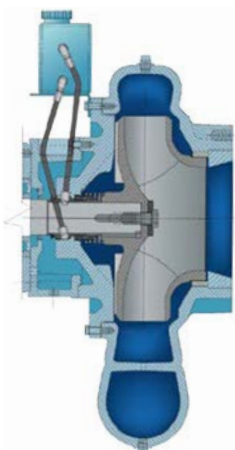


VM/VC/VF
Close-Coupled
Coupled
Frame Mount

LINEAR MOTOR PUMP UNIT FOR FARM IRRIGATION.



RUN-DRY™



For applications where there is the possibility of the pump operating in a dry condition, Cornell's Run-Dry system is the answer.

Cornell's Run- Dry system consists of an auxiliary gland and oil reservoir that keeps the seal faces lubricated and prevents dry running of the seal faces during priming, repriming, or standby operation.

The Run-Dry gland is connected to a lubricant reservoir via inlet and outlet lines such shaft rotation provides continuous circulation and cooling of the

lubricant and seal faces.

With the Run-Dry system your pump can run dry for hours without damaging the mechanical seal.



MOTOR PUMP FOR IRRIGATION. CUSTOM SOLUTIONS FOR EVERY TYPE OF FLOW.



Euromast offers a large selection of pumps that meets, or even exceeds, optimum efficiency standards. Depending on operating hours, fuel and horsepower required, this is a huge money saver per years in terms of energy costs.



TECHNICAL SPECS



PRESSURE

From 3 to 14 bar



PUMP FLOW RATE

From 20 to 600 m³ /h



TANK

From 50 to 1 500 l

APPLICATIONS

- ✓ VOT & LINEAR Unit
- ✓ HOSE REEL Machine
- ✓ FROST IRRIGATION Project
- ✓ DRIP IRRIGATION System
- ✓ TRANSPORT WATER Solution

BASIC VERSIONS & CONFIGURATIONS

SMALL



PUMP FLOW RATE
 Jusqu'à 50 m³/h



VERSION
 A / D



PRESSURE
 From 8 bar



CONFIGURATION
 1 / 2 / 5



MEDIUM



PUMP FLOW RATE
 Jusqu'à 250 m³/h



VERSION
 A / B / C / D



PRESSURE
 From 15 bar



CONFIGURATION
 1 / 2 / 3 / 4 / 5



BIG



PUMP FLOW RATE
 Jusqu'à 50 m³/h



VERSION
 A / B / D



PRESSURE
 From 8 bar

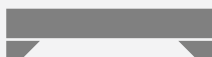


CONFIGURATION
 1 / 2 / 3 / 4



VERSION

A



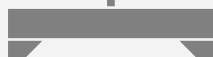
FIXED

B



FORK LIFT

C



LIFTING HOOK

D



SLOW TRAILER

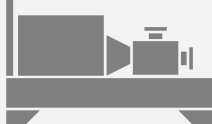
E



FAST TRAILER

CONFIGURATION

1



OPEN

2



ROOF

3



SIDE PROTECTIONS

4



SILENT

5



SUPER SILENT

MOTOR PUMP EMP "SR" RANGE. A TRUE REVOLUTION. UNE VÉRITABLE RÉVOLUTION.



Our SR RANGE solutions, with highly technical specific requirements, are covered by international patent. The first innovation is inside the machines, where our technicians have removed the radiator. They installed a heat exchanger within the Supertank priming system, that allows the engine to get cooled anyway. There are many benefits in this system: energy-efficiency, less noise and reduced environment pollution. **SR RANGE is made up of MOTOR PUMP SR and SR KILLER.**



TECHNICAL SPECS



PRESSURE

From 6 to 16 bar



PUMP FLOW RATE

From 40 to 200 m³/h



FPT
power & technology



caprari
pumping power

rovatti pompe

FEATURES

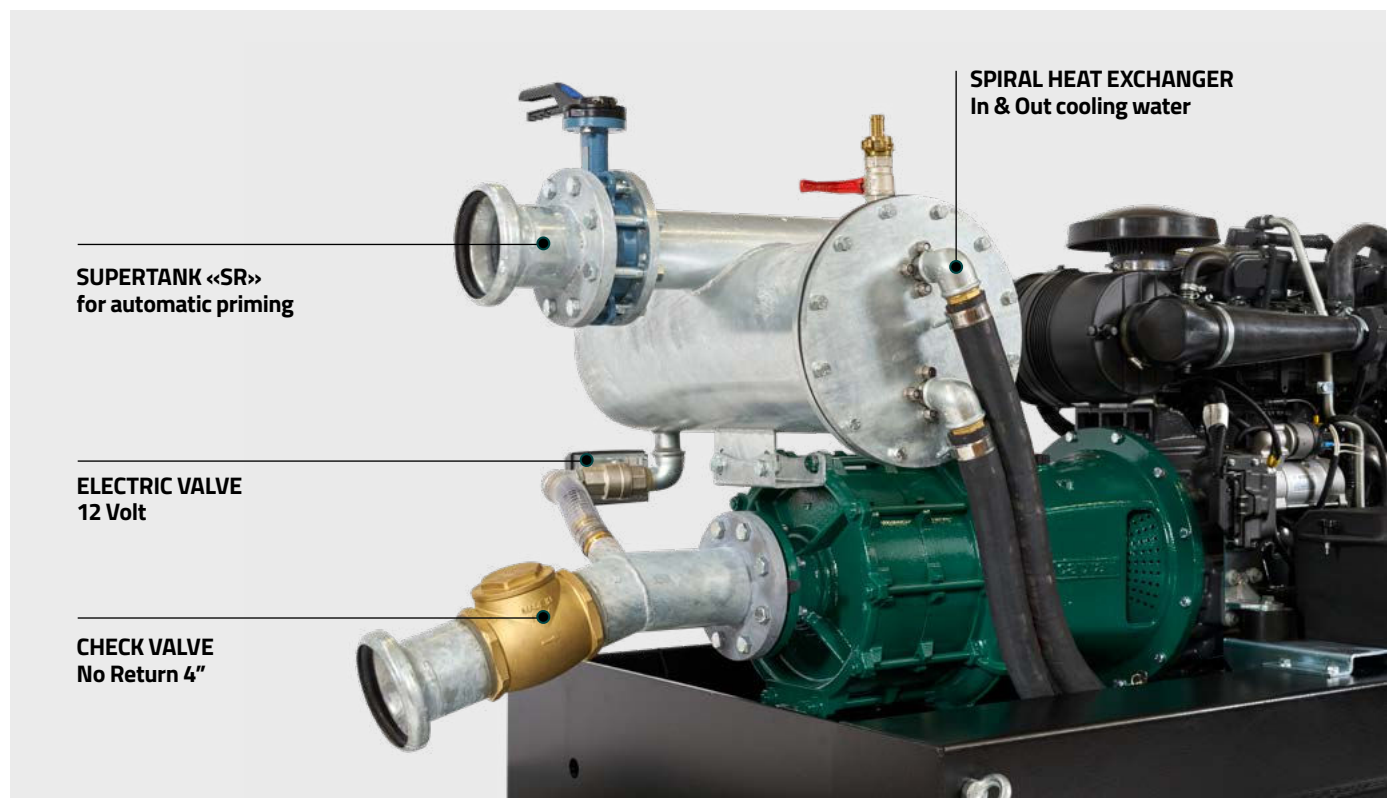
- ✓ Lower fuel consumption
- ✓ Less absorbed power
- ✓ Lower noise
- ✓ Compact dimensions
- ✓ Manual or automatic filling system
- ✓ Low maintenance
- ✓ Less hassle
- ✓ Less emission



E-SUPERTANK with heat exchanger



MOTOR PUMP "SR"
 Super Silent



GREENFLOW. MANY FUNCTIONS IN A SINGLE MACHINE.

The patented multifunctional pump unit **LAMPO** can be used simultaneously as a generator and as a pump with the ability to vary the flow rates and pressures through an inverter. GREENFLOW guarantees the draft of water from wells with a **minimum diameter of 180 mm with a depth of up to 50 m and pumps from 25 to 500 m³/h.** Wheeled tankframe of 1000 l and standard **SUPER SILENT canopy**. Versatile, practical and safe, GREENFLOW is also available in different versions.



ENGINES



TECHNICAL SPECS



PRESSURE
 From 6 to 13 bar



CAPACITY
 Jusqu'à 120 m³/h



WELL SIZE
 Minimum 180 mm



TANK
 650 – 1000 l



GENERATOR
 20 kVA



WELL DEPTH
 Up to 25 m



ELECTRIC PUMPS

caprari
 pumping power

rovatti

GRUNDFOS

OTHER AVAILABLE VERSIONS



GREENFLOW / No Pump



GREENFLOW / Submersible



caprari
pumping power

GRUNDFOS

rovatti pompe



GREENFLOW / Horizontal Pump



CORNELL

caprari
pumping power

rovatti pompe



GREENFLOW / Double Pump



caprari
pumping power

GRUNDFOS

rovatti pompe

FLOW "SR" KILLER. THE SMARTEST SOLUTION TO FIGHT LOWERING WATER LEVEL.

**SUPERTANK & HEAT EXCHANGER + ALTERNATOR
 & SUBMERSIBLE PUMP**



TECHNICAL SPECS



PRESSURE

From 6 to 13 bar



CAPACITY

up to 120 m³/h



TANK

650 – 1000 l



GENERATOR

20 kVA



WELL SIZE

minimum 180 mm



WELL DEPTH

up to 25 m

FEATURES

- ✓ Energy & Water at the same time
- ✓ Motor pump or Lampo SR Motor
- ✓ Pump SR equipped with Caprari/ Rovatti pump
- ✓ Supertank Automatic or Manual version
- ✓ Grundfos Electric submersible pump 7,5 kW
- ✓ Alternator 50 Hz – 4 Poles
- ✓ Remote Control System (GSM)

RIVERSCREEN™

A DEPENDABLE WATER SUPPLY SELF-CLEANING OPERATION.

A **rotating water-driven self-cleaning screen** that dependably delivers good water from as little as 4 inches depth. The ideal solution for the operation depending upon river or canal water sources for pivot irrigation systems. **RIVERSCREEN is built for shallow water pumping - prevents sand problems.** Low maintenance operation. Standard on all Riverscreens is #10 304 stainless steel mesh (up to 120). Works great in livestock lagoons.



TECHNICAL SPECS



MIN. WATER DEPTH
from 4" (10 cm)



PUMP FLOW RATE
from 40 to 200 m³/h



FILTRATION
from 8 to 120 mesh



SUCTION DIAMETER
from 4" to 12"

FEATURES

- ✓ Prevent sand problems
- ✓ Slow moving currents
- ✓ Low-pressure nozzles
- ✓ Fish friendly system



GRAVITY FLOATING PUMP UNITS



WORKS GREAT IN LIVESTOCK LAGOONS



GRAVITY FLOW



Optional Lifting Boom

- Galvanized for long life
- Heavy 6" upright main pipe
- Trussed boom for greater strength
- Brake winch for ease of operation
- Quick latch hook for easy hookup



Optional Power Drive

- Water Driven Power Drive: keeps drum turning even in slow moving current or still water. Only requires 6 GPM (23 l/min)
- Electric Power Driven (12/220V)
- Extra pontoon for long suction line



ELECTRIC PUMPS. HIGH EFFICIENCY WATER SOLUTION.



VERTICAL LINESHAFT PUMPSL

With submerged pump bowl, lineshaft and drive unit on the surface, for installation in deep wells or tanks. Featuring an extremely solid and reliable construction design, they ensure great flexibility in application.



caprari
pumping power

rovatti pompe



ELECTRIC SUBMERSIBLE PUMPS

Coupled with asynchronous submersible motors at 2.900 and 1.450 rpm. Tried and tested machines whose ideal use is for lifting medium flows and medium heads.



CORNELL

caprari
pumping power

SAER
ELETTROPOMPE

rovatti pompe



VERTICAL PROPELLER PUMPS

Lifting large volume of water at low and medium head with maximum efficiency; a wide range of hydraulic configurations that can be proposed in different solutions.



VENERONI
ADVANCED FLUID MOTION



HORIZONTAL & SPLIT CASE PUMPS

Widest product ranges of single and multi-stages pumps used for firefighting, heating and cooling systems, water supply, irrigation, industry and the naval and mining sectors.



CORNELL

caprari
pumping power

SAER
ELETTROPOMPE

rovatti pompe

PRIMING SYSTEMS

A wide range of accessories allows **full customisation of our pumping groups.**



SUPERTANK FOR AUTOMATIC PRIMING

filling tank in manual or automatic mode;
from DN65 to DN125



PLUTO

trigger system



E-SELF

self-priming electric pump (12/24/220V)



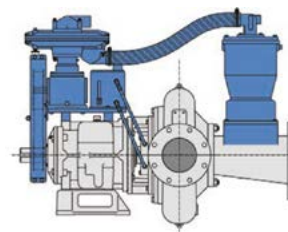
E-VACUUM

vacuum priming system (12/220V)



PAM

manual diaphragm pump



REDI-PRIME

redi-prime fully automatic priming and re-priming



EUROMAST Sarl

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