

We care about your watering.

**Euromacchine**  
GROUP FORCE

# EMERGENCY

Fast and effective solutions for flood  
and emergency situations



# TEAMING UP TO BE SAFER.

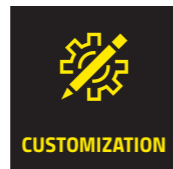
The emergency sector is a constant challenge. We interpret this literally by challenging ourselves everyday in the design of machines that guarantee a higher standard of safety and performance.

That's why our **Multifunctional Motor Pump Units**, our **Lighting Towers** and our **Generating Sets**, are used by the **Civil Defense and Fire Brigades** all over the world for their efficiency, durability and reliability. A wide range of highly customizable products are our guarantee for your safety.



### INNOVATIVE PRODUCTS

- research & development
- design & patenting



### MADE ON YOUR NEEDS

- highly customized solutions and tailor-made products

## MAIN PRODUCTS AND SOLUTIONS



### LAMPO EMERGENCY

high-performance multifunctional pump unit



### WATER TRANSFER DIESEL PUMPS

high-volume drainage units



### SELF-PRIMING DIESEL PUMPS

custom solutions for different types of flow



### CORNELL SELF-PRIMING DIESEL PUMPS

pumps featuring highest flow and efficiency in the market



### RIVERSCREEN™

dependable water supply self-cleaning operation



### SPECIAL PROJECTS

fully customized solutions for user needs

# LAMPO EMERGENCY. THE MULTIFUNCTIONAL ANSWER TO THE MOST DEMANDING SITUATIONS.









The patented multifunctional pump unit LAMPO Emergency can be used simultaneously as a Generator, a lighting tower and a pump with the ability to vary the flow rates and pressures through an inverter. LAMPO Emergency guarantees water drainage with pumps from 100 to 500 m<sup>3</sup>/h.

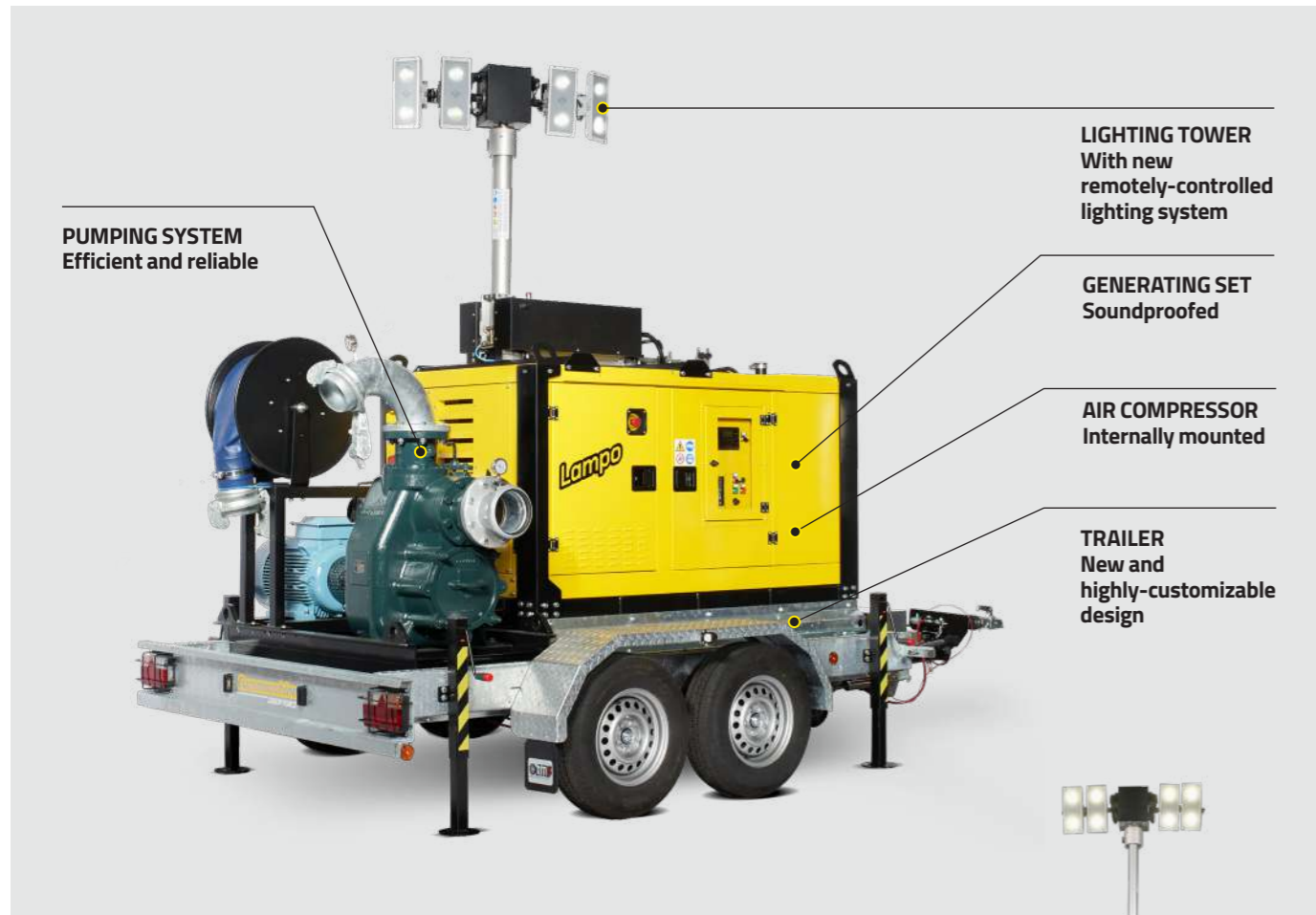
Generating set comes as standard in SUPER SILENT version, is available with power from 10 to 200 kVA and is completed with LED lights lighting tower. LAMPO Emergency is complete with equipment that improves final user interventions









## TECHNICAL SPECS

- |   |   |   |
|---|---|---|
|  <b>GENERATOR POWER</b><br>From 10 up to 200 kVA |  <b>CAPACITY</b><br>From 100 up to 500 m <sup>3</sup> /h |  <b>RESIDUAL POWER</b><br>From 5 up to 200 kVA |
|  <b>MAXIMUM DRAFTING DEPTH</b><br>Up to 30 m     |  <b>WORKING PRESSURE</b><br>From 2 up to 16 bar          |  <b>PUMP DIAMETER</b><br>From 4" (100 mm)      |

# LAMPO EVO. HIGH EFFICIENCY TO FIGHT CRITICAL FLOODING EMERGENCIES.



## TECHNICAL SPECS






-  **PRESSURE**  
From 2 to 16 bar
-  **Capacity**  
From 100 up to 500 m<sup>3</sup>/h
-  **GENERATOR**  
From 10 up to 200 kVA
-  **RESIDUAL POWER**  
From 10 up to 200 kVA
-  **SUCTION DIAMETER**  
From 4" (100 mm)
-  **SUCTION DEPTH**  
Up to 8 meters



# LAMPO FIRE BRIGADES. PERFORMANCE AND RELIABILITY TAKEN TO A NEW LEVEL.



## TECHNICAL SPECS

-  **PRESSURE**  
From 6 to 13 bar
-  **Capacity**  
Up to 250 m<sup>3</sup>/h
-  **RESIDUAL POWER**  
From 10 up to 200 kVA
-  **SUCTION DEPTH**  
Up to 30 meters
-  **SUCTION DIAMETER**  
From 4" (100 mm)

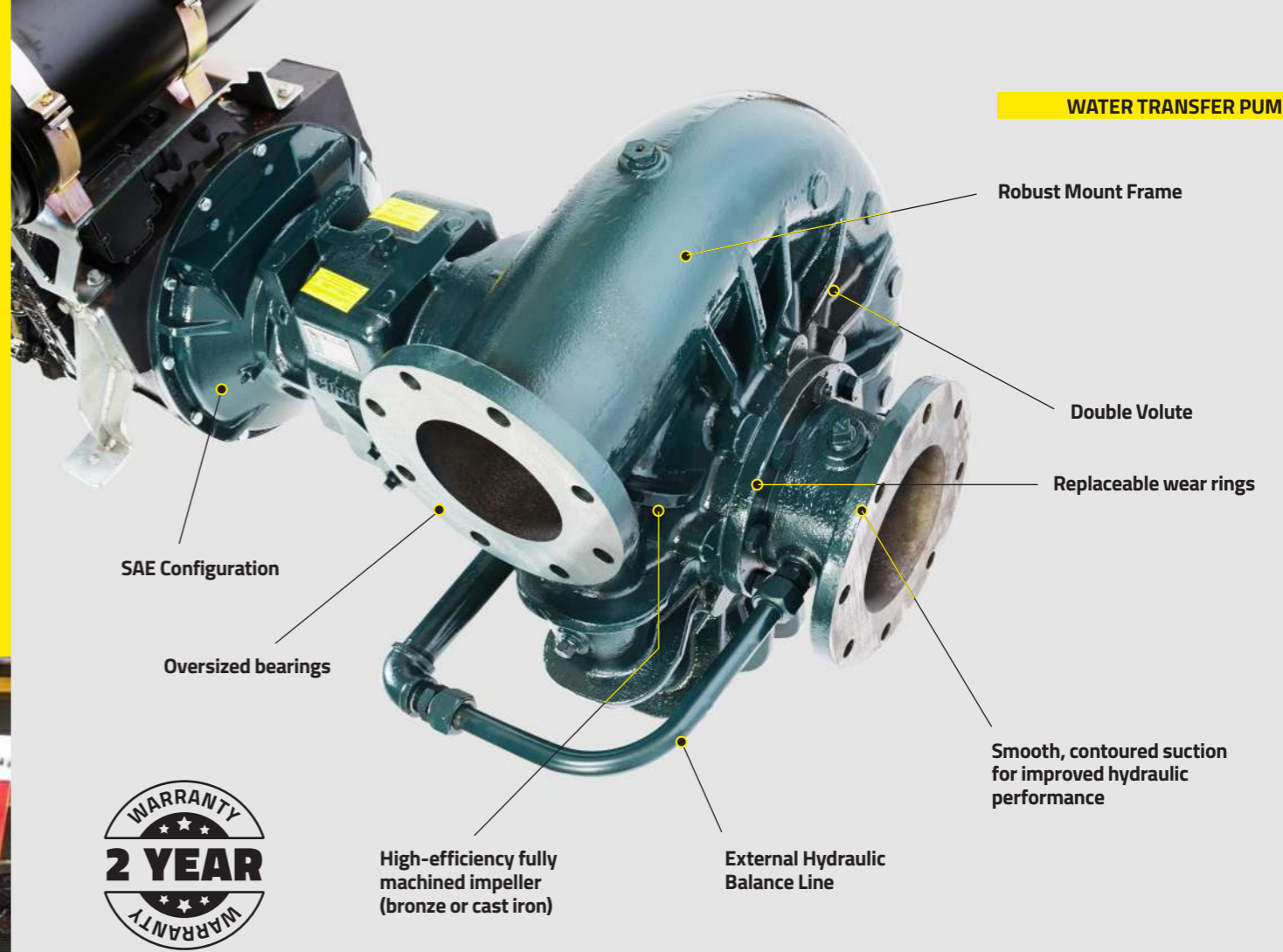


# CORNELL PUMPS. EFFICIENT BY DESIGN.



When you need the impossible, we have the right solution, with high-volume motor pump units you can reach up to 8,600 m<sup>3</sup>/h at very high pressures. Quality and efficiency are guaranteed by Cornell brand.

There are many unique features, 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 water transfer pumps industry.



## TOP QUALITY MATERIALS

All Cornell emergency pumps are manufactured with top quality materials. Standard features include balanced impellers, heavy-duty shafts, replaceable shaft sleeves, and replaceable wear rings. Specializing in high-head dewatering, solid-handling, and slurry pumps, Cornell has delivered dependable, reliable, and efficient pumps for decades.

## 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, combined with efficiencies up to 89%, are the reason why Cornell is considered the benchmark in water transfer pumps.



### LESS WEAR

- less maintenance
- less parts
- less downtime

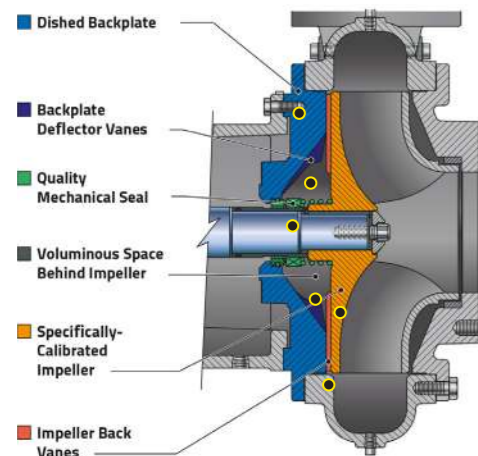


### EFFICIENCY

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

### 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

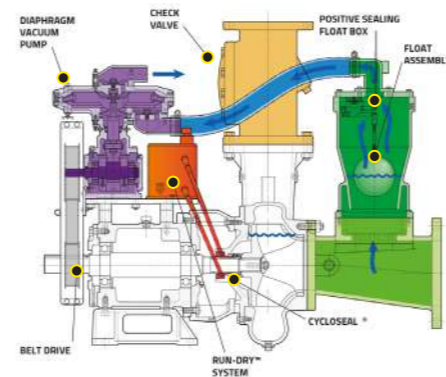


### CYCLOSEAL® DESIGN: ADVANTAGES IN WATER TRANSFER

- **EXTENDED SEAL LIFE:** Cycloseal has proven itself in the toughest applications; in some cases more than tripling the normally-expected mechanical seal life.
- **SYSTEM SAVINGS:** The Cycloseal system requires no external water flush, filters, grease, piping or instrumentation normally associated with packing or double mechanical seals.
- **MAINTENANCE SAVINGS:** Longer seal life which translates into less pump downtime and lower maintenance costs.
- **BETTER FOR ABRASIVES:** More resilient than standard mechanical seals, Cycloseal keeps solids away from the seal area for reduced seal wear.

### REDI-PRIME® SYSTEM

- Fully-automatic priming and repriming
- Handles air/liquid mixtures with ease
- Rapidly primes and re-primers completely unattended
- Environmentally safe priming system designed to prevent product leakage
- Check valve eliminates any liquid carryover



### AVAILABLE SOLUTIONS

#### DURA-PRIME® PUMPS

Robust construction pumps are available in 3", 4" and 6" models and are ideal for rental and construction applications.

- PUMP FLOW RATE**  
Up to 700 m<sup>3</sup>/h
- PRESSURE**  
Up to 60 m
- Max solids**  
3" (76 mm)



#### N-SOLIDS HANDLING PUMPS

Cornell offers over 60 models of heavy duty Solids Handling Pumps for the toughest slurry applications.

- PUMP FLOW RATE**  
Up to 8,700 m<sup>3</sup>/h
- PRESSURE**  
Up to 150 m
- Max solids**  
10" (260 mm)



#### HIGH-HEAD PUMPS

Cornell's MX PUMPS provide heads up to 800', long service life, and industry-leading efficiency. Designed to handle high head applications

- PUMP FLOW RATE**  
Up to 1,800 m<sup>3</sup>/h
- PRESSURE**  
Up to 240 m
- Max solids**  
2,5" (60 mm)



#### PUMPS FOR COARSE ABRASIVES

These pumps are specifically designed for coarse abrasive slurry applications such as sand, gravel, coal, manure, and mine dewatering.

- PUMP FLOW RATE**  
Up to 2,000 m<sup>3</sup>/h
- PRESSURE**  
Up to 185 m
- Max solids**  
3" (76 mm)



# EMERGENCY MOTOR PUMPS. CUSTOM SOLUTION FOR ANY TYPE OF NEED.



High-performance diesel engine pump units customizable for every kind of need, with flow rates from 30 to 1450 m<sup>3</sup>/h with variable pressures. Each model can be specially designed and made according to the customer's specific requirements. Available in 3 ranges: **PORTABLE**, **EASY** and **BIG**.



## TECHNICAL SPECS

**PRESSURE**  
Up to 40 m

**PUMP FLOW RATE**  
Up to 1450 m<sup>3</sup>/h

**MAX SOLIDS**  
3" (76 mm)

**DISCHARGE FLANGE**  
DN80 to DN300 – 3" to 12"

## APPLICATIONS

- ✓ Flood areas management
- ✓ Firefighting support
- ✓ Bypass pumping
- ✓ Water transfer
- ✓ River level control

## BASIC VERSIONS & CONFIGURATIONS

### PORTABLE

**PUMP FLOW RATE**  
Up to 150 m<sup>3</sup>/h

**VERSION**  
A / D

**PRESSURE**  
Up to 4 bar

**CONFIGURATION**  
1 / 2 / 5



### EASY

**PUMP FLOW RATE**  
Up to 350 m<sup>3</sup>/h

**VERSION**  
A / B / C / D

**PRESSURE**  
Up to 4 bar

**CONFIGURATION**  
1 / 2 / 3 / 4 / 5



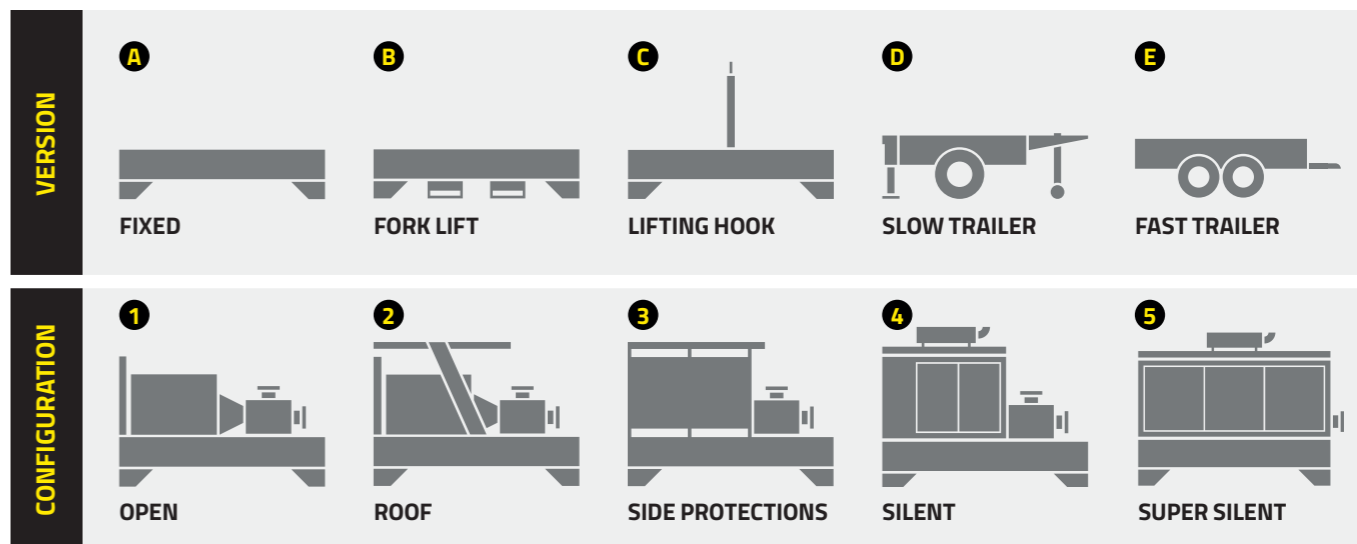
### BIG

**PUMP FLOW RATE**  
Up to 1450 m<sup>3</sup>/h

**VERSION**  
A / B / D

**PRESSURE**  
Up to 4 bar

**CONFIGURATION**  
1 / 2 / 3 / 4






# CORNELL STH & STX SERIES. EFFICIENT, DURABLE, INNOVATIVE.

The Cornell STX, STL & STH Self-Priming Lines are the newest products from Cornell Pump following a tradition of building world-class pumping equipment. The Self-Priming Pumps follow this tradition by the addition of the Cycloseal® sealing system, which will extend your seal life. Do you have an existing self-primer installed? Contact Euromacchine regarding the retrofit program, which allows the Cornell STX rotating assemblies to retrofit into your existing pump volute.






## STX SERIES

Better efficiency than competitors, while maintaining flange-to-flange interchangeability. More robust than standard self-primers thanks to the oversized bearing frame and heavy-duty ductile iron construction.

-  **PUMP FLOW RATE**  
Up to 960 m<sup>3</sup>/h
-  **PRESSURE**  
Up to 205' (62 m)
-  **Max solids**  
3" (76 mm)

## STH SERIES

High head without requiring a booster pump. With heads up to 253', excellent efficiencies and flow, the STH series is able to tackle the most demanding applications.

-  **PUMP FLOW RATE**  
Up to 460 m<sup>3</sup>/h
-  **PRESSURE**  
Up to 253' (77 m)
-  **Max solids**  
10" (260 mm)

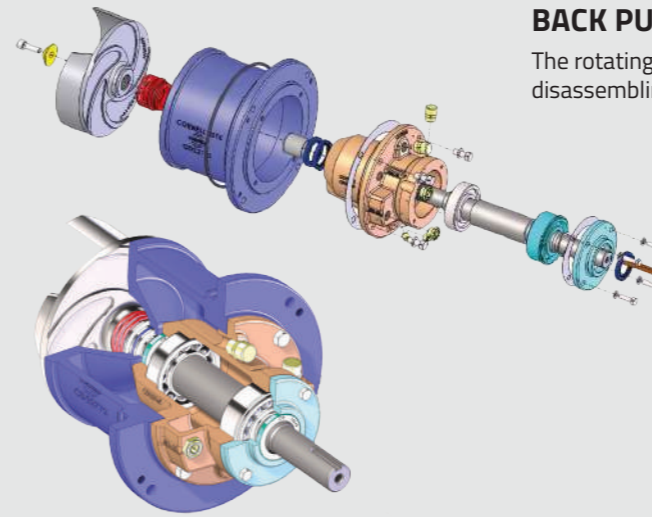
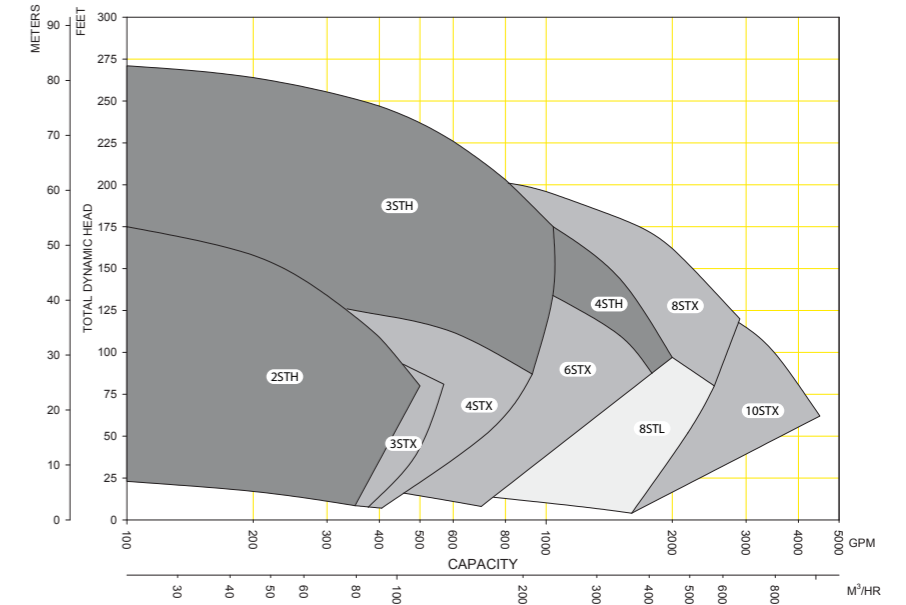


## MATERIALS OF CONSTRUCTION

- Ductile iron volute casing, backplate, and impeller
- 17-4PH stainless steel shafts
- Optional CD4MCu on 3STX, 4STX, and 6STX pump models

## FEATURES

- Cycloseal® grit removal system
- High-efficiency design
- High RPM capacity for engine-driven applications
- High head capacity
- Modular design
- ANSI, NPT, & DIN flanges available
- Five-year warranty



## BACK PULL-OUT DESIGN

The rotating assembly can be removed without disassembling the pump or disturbing the piping.

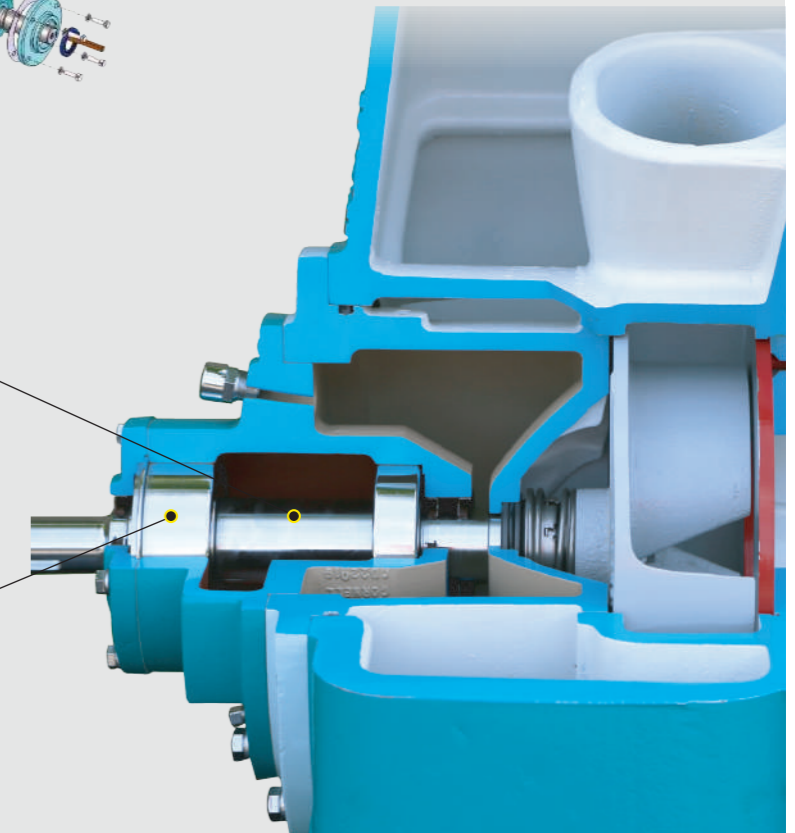


## ROTATING ASSEMBLY

Cornell's STX rotating assembly allows for retrofits of existing installations to upgrade your existing pump with Cornell Pump quality and features.

## HEAVY-DUTY BEARINGS

Heavy-duty thrust bearings with Separate Oil Reserve sized for V-belt drive loads. Separate oil filling plugs for bearings and mechanical seals with sight gauges.





# 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). It works great in livestock lagoons.



## TECHNICAL SPECS



**MIN. WATER DEPTH**  
from 4" (10 cm)



**PUMP FLOW RATE**  
from 20 to 630 m<sup>3</sup>/h



**FILTRATION**  
from 8 to 120 mesh



**SUCTION DIAMETER**  
from 4" to 12"

## FEATURES

- ✔ Prevents 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



### GERMAN & DUTCH FIRE BRIGADES





LAMPO Emergency units are normally used by Dutch and German Fire Brigades that we have been supporting for ten years. In this case a Double Pump Lampo with submerge transfer and a Vertical booster pump is used.

-  **PUMP FLOW RATE**  
Up to 250 m³/h
-  **PRESSURE**  
Up to 14 bar
-  **GENERATOR POWER**  
Up to 200 kVA
-  **SUCTION LIFT**  
Up to -30 m



### FIRE BRIGADE BOOSTER UNIT





Fully customized high-pressure booster unit designed and built under Italian Fire Brigades specifications and request, able to supply up to 4 fire units at the same time.

-  **PUMP FLOW RATE**  
Up to 250 m³/h
-  **PRESSURE**  
Up to 10 bar
-  **FUEL TANK**  
Up to 650 l
-  **SPECIFICATIONS**  
NO radiator unit



### SERBIAN CIVIL DEFENCE





A project of 3 Lampo units 60kVA, self-priming pump 520 m³/h each and 3 high-volume pump units with 1300 m³/h maximum flow each.

-  **PUMP FLOW RATE**  
Up to 520 m³/h
-  **PRESSURE**  
Up to 3 bar
-  **GENERATOR POWER**  
Up to 200 kVA
-  **LIGHTNING TOWER**  
Up to 9 meters height







### OIL&GAS REFINERY PUMP

Robust construction pump unit with RENTAL configuration, equipped with a pump, suitable to handle aggressive liquids in the chemical and petrochemical industries.

-  **PUMP FLOW RATE**  
Up to 250 m³/h
-  **PRESSURE**  
Up to 8 bar
-  **FUEL TANK**  
Up to 1000 l
-  **CONFIGURATION**  
Rental version

### RUSSIAN SEWAGE MUNICIPALITY





These trailed Cornell pump units for Russian sewage municipality are able to pump 920 m³/h each, featuring robust construction and efficient operation.

-  **PUMP FLOW RATE**  
Up to 920 m³/h
-  **PRESSURE**  
Up to 11 bar
-  **FUEL TANK**  
Up to 1000 l
-  **SOLID HANDLING**  
Up to 86 mm



### BRITISH ARMY LAMPO UNIT





Designed and built under strict surveillance of the UK Army, this unit has been manufactured to supply emergency camps with electricity, light and a potable water transfer pump unit to supply temporary residential units.

-  **PUMP FLOW RATE**  
Up to 250 m³/h
-  **PRESSURE**  
Up to 16 bar
-  **GENERATOR POWER**  
Up to 200 kVA
-  **WATER PUMP**  
Up to -30 m



### ITALIAN WATER MUNICIPALITY





High-volume self-priming and high solid handling pump unit of 700 m³/h mounted in a strong structured double axle trailer to respond to common requirements by the water municipality companies.

-  **PUMP FLOW RATE**  
Up to 1300 m³/h
-  **PRESSURE**  
Up to 3 bar
-  **TRAILER MASS**  
Up to 3000 Kg
-  **SOLID HANDLING**  
Up to 70 mm



### GERMAN SEWAGE MUNICIPALITY

High-volume solid handling Cornell pump unit for municipal by-pass and repair interventions, equipped with Redi-Prime® system to ensure continuous priming operation.

-  **PUMP FLOW RATE**  
Up to 350 m³/h
-  **PRESSURE**  
Up to 14 bar
-  **SOLID HANDLING**  
Up to 76,2 mm
-  **PRYMING SYSTEM**  
Cornell Redi-Prime®

### For further information:

Matt Grant  
Brand Rep New Zealand  
Southwater  
T. 022 160 4781  
E. [matt.grant@southwater.co.nz](mailto:matt.grant@southwater.co.nz)

Josh Redman  
Brand Rep New Zealand  
Southwater  
T. 027 410 1141  
E. [Josh.redman@southwater.co.nz](mailto:Josh.redman@southwater.co.nz)

### General info



Via delle Industrie, 20  
31047 Ponte di Piave (TV), ITALY



Call our customer service at:  
+ 39 0422 853200



Or write an email at:  
[info@euromacchine.it](mailto:info@euromacchine.it)

