



**Portable line**  
ET Pump

**Dosing line**  
Micron Pump

**Compact line**  
EDS Pump. EDRS Pump

# Portable line ET Pump

## Drum progressive cavity pump ET Series

For high viscosity fluids, with solids, concentrated juices, fat, honey, pulp and chemicals



<b>Pump ET model</b>	<b>100.2</b>	<b>236.4</b>	<b>236.2</b>	<b>375.2</b>
Max. flow (in relation to its viscosity)	850	2000	4300	5500
Max. download pressure	6	6	6	6
Max. RPM	1000	1000	1000	1000
Viscosity	1-100000			
Temperature	160°C			
<b>Construction</b>				
Casing / Housing	AISI 316 Mirror polished			
Flexi shaft	AISI 316 Mirror polished			
Rotor	AISI 316 Mirror polished			
Stator	Perbunan / EPDM			
Shaft seal	Mechanic seal			
External diameter	45.2	56	56	76.1
Submergence Large	800-1400			
Connections	Clamp 1 1/2" y 2"			
Engine power	0,5-2			
Accessories	<ul style="list-style-type: none"> <li>• Ignition and stop switch</li> <li>Phase inverter key</li> <li>10 m cable with plug</li> <li>Horizontal assembly support</li> <li>Support with wheels for a fix vertical assembly</li> <li>Feeding hopper in horizontal assembly</li> <li>Variable frequency drive for dosing</li> <li>Manual dosing valves</li> </ul>			

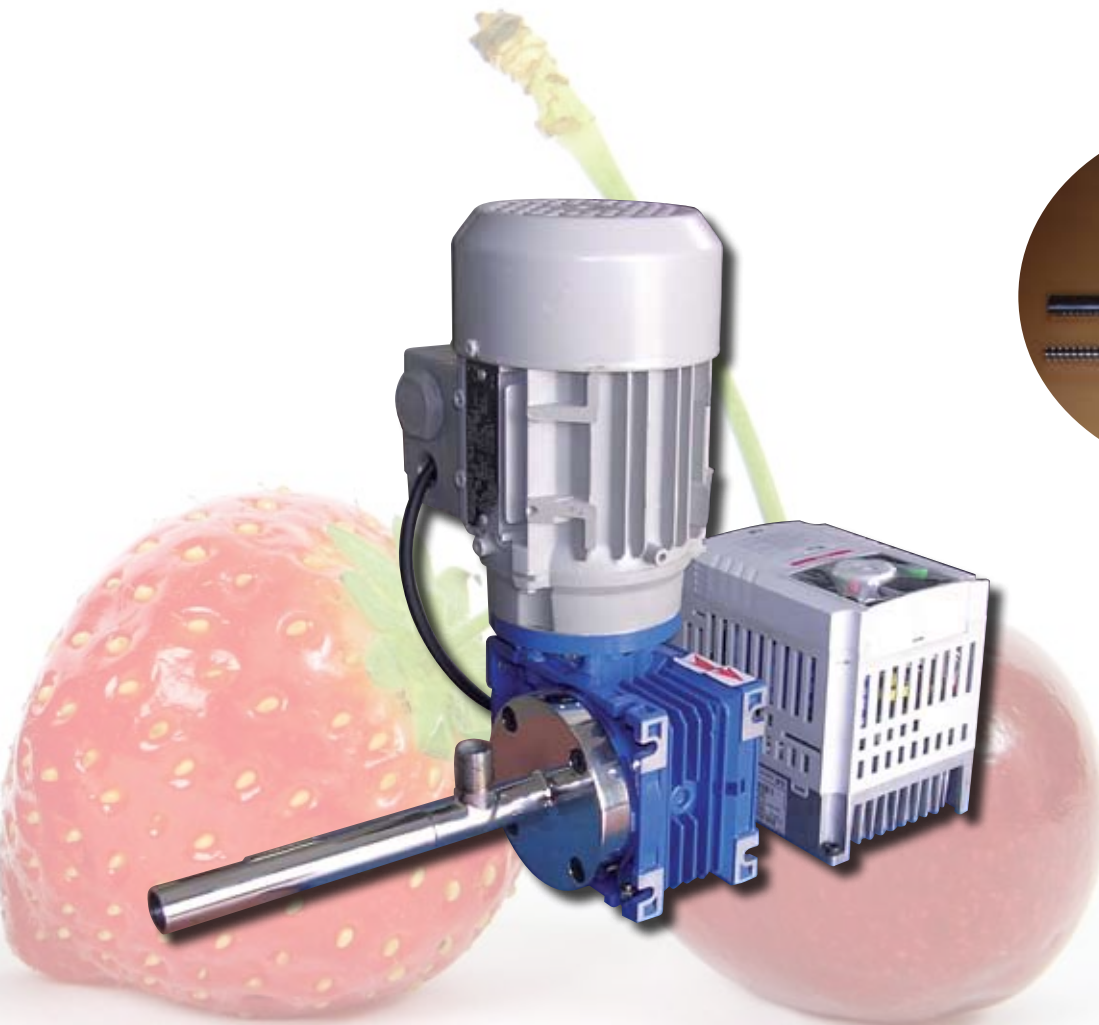
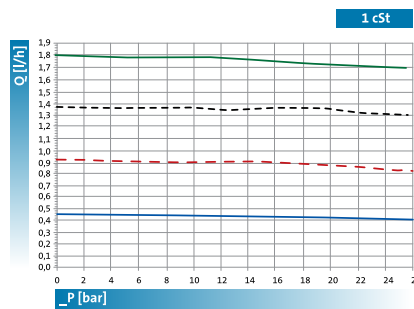
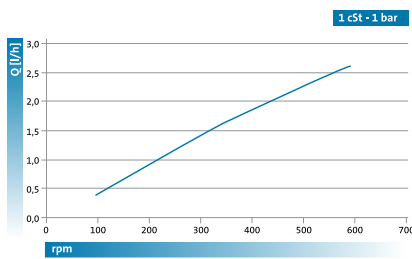


# Dosing line Micron Line

## Eccentric progressive cavity dosing pump

**MICRON PUMPS** are used for transporting and dosing small amounts of all kinds of fluids with high accuracy in almost all industrial sectors.

It is suitable to pump low and high viscosity fluids as well as fluids with solid particles and chemically aggressive media.



**Micron Pump**  
Parts list and sketch

# Compact line EDS Pump

## Eccentric helical rotor pump

Direct drive pump for sanitary applications

### Details

- 100% airtight and armored cardan joints. Internally life lubricated with special FDA grease which as it is not in contact with the fluid, they assure a long life and an exceptional yielding even in extreme abrasive conditions of the pumped product
- Screw in AISI 316. Ultra-sanitary polished. Other materials available according to the application
- High resistance stator. Vulcanized in a steel tube. Elastomer elaborated by a continuous injection guarantees an internal and superficial homogeneous structure. Different elastomers available depending on the pumped fluid. Stators with stainless steel housing are available
- Entirely built in AISI 316. Ultra-sanitary design. Corrosion resistant. Extreme microbiological sanitary surface finish
- Internal mechanic seal. Leakage Free. Qualified for CIP cleaning and for reverse operation. Self cleaning design
- Standardized flanges. Easy maintenance. Optional multiple kinds of connections. Minimum contact to the floor. Simple internal and external cleaning of the pump

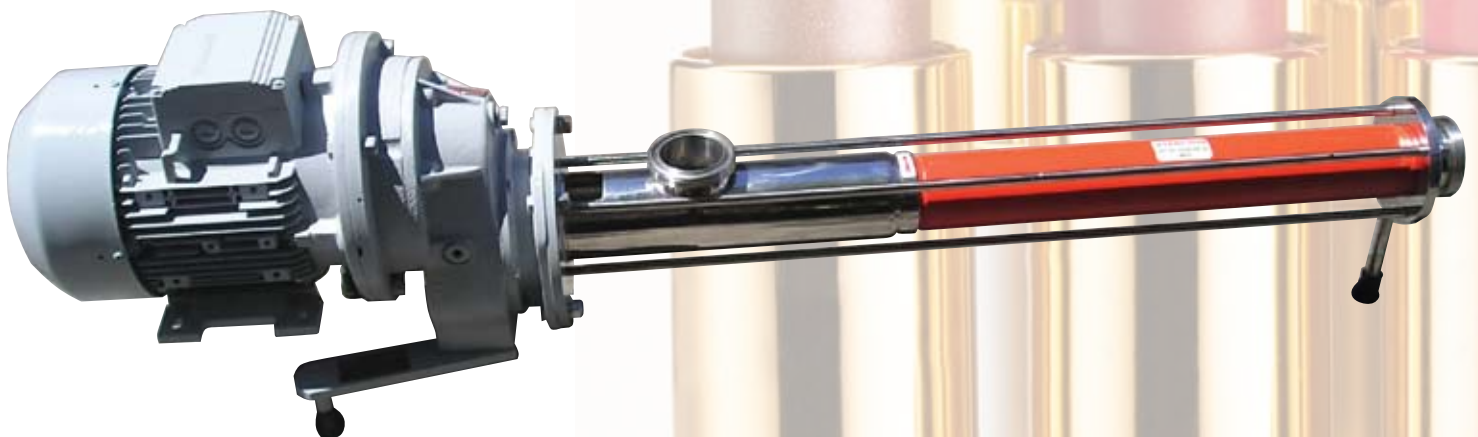
### Characteristics and advantages:

This sanitary pump maintains all the qualities of the traditional ES series as for example:

- Microbiologically sanitary surface in contact with mirror polish fluid
- Clamp, DIN 11851 and other kind of available connectors
- Inner mechanical seal, appropriate for CIP cleaning and for running the pump in both flow directions
- Elastomer elaborated by continuous injection warrants a maximum resistance and performance. Compact design. Self alignment. Easy maintenance. Optional vertical assembly

### News:

- Structural compact design with 3 legs (sanitary design according to 3A) with a good clearance from the floor
- Minimum floor contact allowing an easy and effective cleaning and installation of the pump
- Easy to dismantle for the replacement of the mechanic seal and for a complete cleaning of all the components
- Automatic calibration and alignment of the mechanic seal
- Witness porthole of the mechanical seal. If a failure of the mechanical seal should occur the fluid is drained through a stainless steel lantern easy to access and easy to clean. This eventual leak is separated from the gear motor by means of a radial seal of the gear shaft, preventing the contamination of the radial seal of the gear shaft



# Compact line EDRS Pump

## Sanitary eccentric progressive cavity pump

Pump with hopper and screw feeder for heavy/viscous products

### Characteristics:

- Intended for: grinding with or without must, meat, pates, cheese
- Flow from 500 kg/h up to more than 60000 kg/h
- Pressure up to 24 bars and more
- Low maintenance cost
- Spare parts always in stock
- Food grade finishing
- Immediate delivery availability
- National manufacture DIN EN ISO 9001 / DIN EN ISO 14001
- Wine harvest pump



### Range

1 stage: up to 6 bar

2 stages: up to 12 bar

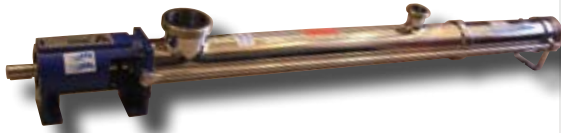
4 stages: up to 24 bar

EP Pumps: up to 80 bar

### Capacity

0 - > 250 m<sup>3</sup>/h

# Other models



## EFS model

Flexible shaft ultra-sanitary pump for micro biologically cleanings

### Characteristics and applications:

Used where extreme sanitary requirements are needed. Designs approved by the 3-A. With flexible shaft and second CIP fitting. Ultra-sanitary polish



## Applications

### Various

- Mayonnaise, sauces, dressings
- Tomato purée, pulp, ketchup, soup
- Fruit pulp, fruit pieces, pie stuffing
- Honey, jellies, marmalades
- Meat dough, sausages, fish, cold meat
- Prepared food, pâté
- Vegetal oil, fat, palm oil
- Chocolates, sweet stuffing, egg
- Jelly, glycerin, emulsifiers
- Dog, cat and animal food

### Dairy Industry

- Milk, cream and condensed milk
- Fruit purée
- For atomizers (pumps up to 24 bar)
- Yoghurt, ricotta cheese, ice cream
- Desserts and puddings
- Proteins and lactose
- Butter, margarine
- Cream cheese
- Milk jam
- Whey

### Beverages

- Sodas
- Fruit, orange, grape extracts
- Soda extracts
- Sweetened solutions
- Yeast
- Yeast and malt
- Unfermented grape juice
- Beer, wine and liquor
- Breakfast cereals

### Cereals, Jams, Sweets

- Glucose, liquid sugar, fondant
- Chocolates, cocoa dough
- Covering substances
- Candies, candy stuffing
- Jelly, liquor
- Coloring and flavoring substances
- Solutions - Starch, flour, stabilizers
- Cake mixes, cookies, cream, stuffing material

### Personal care and Cosmetics

- Creams, lotions, emulsions
- Shampoo (LESS) and hair conditionings



# Applications cont.

- Gels and bath creams
- Soaps and detergents / surfactants
- Toothpaste & dental gels
- Lipsticks, face pack, make-up (cosmetic waxes)
- Fragrances, essential oils

## Pharmaceutical and Bio- Pharma

- Topics - Creams and ointments, lotions, gels (ultrasound)
- Orally taken items - Cough syrup, dough, tablet and pill covers
- Medicine drinks - Nutritious and diet
- Parenterals - Injectables, vaccines, antibiotics, blood products, plasma, white corpuscles
- Bio-fermentation, enzymes, bacteria and virus, contact lenses solutions



# Accessories

- Bridge breaker
- Special dimension hoppers
- Hopper cover
- Built-in by-Pass
- Mobiles
- Control Panel and frequency inverter
- Remote control
- Special mechanical seals
- Special building materials
- Dosing picks
- Second CIP fittings



# Certifications and standards

ISO 9001, ISO 14001, 3-A





# Bornemann Pumps

**Joh. Heinr. Bornemann** was founded in 1853; the company is a world leader in the design and manufacturing of progressive cavity pumps with more than 95 points of assistance worldwide. Since 1983, **Argentina Bornemann Pumps** produce pumps in this country with the quality and technology of the Joh. Heinr Bornemann German group. Simple progressive cavity pumps for the pumping of all kinds of fluid. They are mainly used for soft pumping of fluids: cream, cheese, fine wine, air or gas solved fluids, heterogeneous fluids without producing any emulsion. Pumping of fluids with particles: yoghurt with fruit, must, liquid distilled from grapes or herb pressings, wine must, preserves, mud with sand, pulp, fluids with fibers. Pumping of fluids which are difficult to suck: extraction of distillers, evaporators and bunchers' bottoms. Pumps for oil industry: separation station and plant, API pool and ground pool, recirculation, portable equipment, sediment and mud extraction, water formation and re-injection. Multiphase Pumps (water, oil and gas simultaneously).

Besides, **Bornemann Pumps** Pumps count with a complete after sales service with a wide and professional world-wide representatives network. We are able to provide and administrate CAD systems and ready to use process engineering.

**Bornemann Pumps** have certified in ISO 9001 and have ultra-sanitary 3A approved models. Besides, they have certified ISO 14001 standards. It is additionally the representative and authorized service of the German companies:

**Philipp Hilge**

*Highly sanitary Centrifugal Pumps*

**Bran + Luebbe**

*Pumps and dosing systems*

**Aerzen**

*Compressors and blowers*

**Jabsco**

*Lobe and flexible rotor pumps*

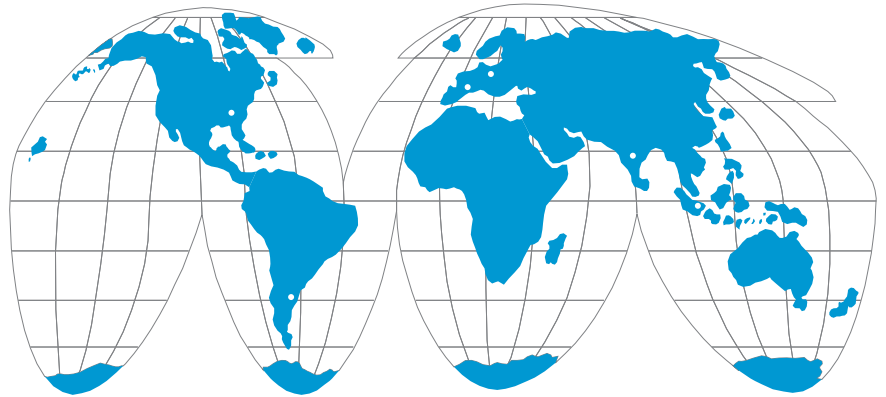
**Kral**

*Three spindle progressive cavity pumps*

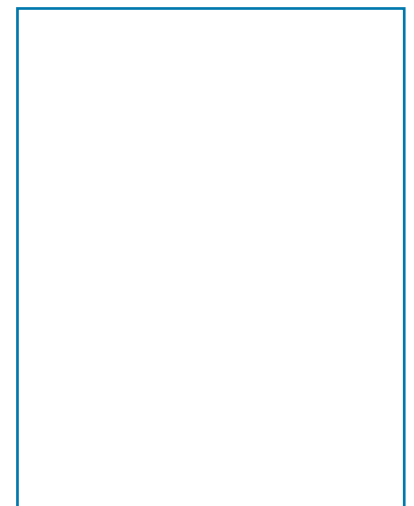
**Krytem**

*Pumps and cryogenic systems*

**Pumps and systems engineering for food,  
ecological, oil and naval industry**



**Distributor**



**Argentina**

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