



**HpE PROCESS LIMITED**

# **PUMPS**



**OVER 25 YEARS OF SUCCESS**

[www.hpeprocess.com](http://www.hpeprocess.com)

# Service & Repair

**We service / repair pumps and valves in-house in our clean room. We can perform static, pressure tests, dynamic pressure and flow testing (for pumps). Items can be sanitised on re-build or after testing.**



## Spare kits

**A full range of spares are available upon request for a vast range of pumps. All parts are supplied by the original source.**

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HpE Process has been established for over 25 years, and with over 150 years of combined company experience in hygienic fluid handling processes our level of technical sales support and services are unsurpassed. HpE Process is in a position to provide innovative, cost effective, and advanced products and system solutions for virtually any fluid flow applications.

Complimented by a comprehensive range of selected proven products, from the world's leading manufacturers, we are helping our customers to reduce plant downtime and waste.



We have selected our products carefully from the world's best manufacturers, with the aim of being able to offer the most comprehensive range of products that not only meet British, European and American standards, but also offer, in conjunction with our own experience and knowledge, cost effective solutions to the issues that are at the core of any manufacturer.

- Maximising product quality
- Reducing product waste
- Reducing water usage
- Reducing effluent costs
- Reducing energy demand
- Keeping the factory running reliably
- Low cost of ownership on plant and equipment

What follows outlines just some of the products and services that we offer and which have been supplied by HpE for over 25 years to the world's process industry, from small "new start" breweries to the world's biggest of food manufacturers.

#### Key to product usage

- Sanitary
- Pharma
- Chemical
- Hygienic
- BioTech

## Pumps

Food producers and other industries are under constant pressure to deliver high quality yet affordable products just in time to retailers while maintaining optimum standards of hygiene to ensure consumer health and safety.

Waste and loss of production are two of the biggest barriers they face. HpE Process has been a trusted partner and adept solution provider to High Street brands for over 25 years. We have helped manufacturers reduce waste and improve reliability, boosting productivity with bespoke systems designed around customers' requirements.

## Service and Repair

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# Versaline Range

The Versaline range has been specially put together of high quality pumps, at affordable prices. The range is suitable for small businesses and contractors.

## Centrifugal Pumps



## Versaline Range

- 0.55kw to 30kw
- Flowrate up to 140,000l/hr
- Head up to 75m

All pumps up to 7.5kw can be supplied with integral frequency inverters, electro polishing is standard, with options on specific finishes to customer specification. Motor to IE3.



## Versaline VCP Pumps



For Dairy, Beer, Beverage, Pharmaceutical and Chemical applications

- Flow rates from 5m<sup>3</sup>/hr to 273m<sup>3</sup>/hr
- Delivery heads up to 115m
- Available with Trolley



## Multi-Stage Centrifugal Pumps

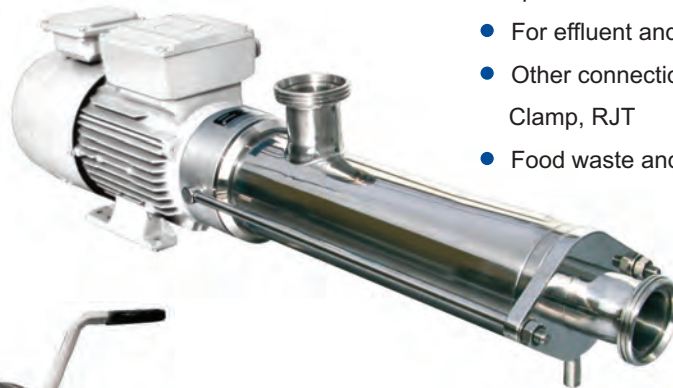
For Food and Pharmaceutical applications

- Horizontal mounting or vertical mounting (self draining)
- Flowrate up to 45,000l/hr, head up to 120m

## Sanitary 'S' type self-priming Liquid Ring Pumps

For CIP return

- Available as end suction or vertical suction designs



## Pharma / Aseptic Range



Pharma process, quality water distribution maintenance

- Low maintenance
- All forged or rolled components
- All grade 1,4404(316L) welded parts with options on 1,4435
- Controlled delta ferrite, with optional certification
- Full material traceability
- Optional drain connection or valve

## Progressing Cavity Pumps



For Industrial, Sanitary and Hygienic applications

- EHEDG and 3A complaint
- Designed specifically for Wine, Oil, Juice, Canned Food etc
- BSP connections
- Flowrates up to 150m<sup>3</sup>/h, pressures up to 48 Bar
- For effluent and bioreactors
- Other connections DIN11851, SMS, Clamp, RJT
- Food waste and food product transfer



# Did you know that 90% of running costs

HpE works with a varied customer base, ensuring each is provided with the correct products and systems for their needs. Some of which are those working in busy and sometimes stressful environments who do not want to worry about having to keep their plant / production running in the face of late or delayed delivery times or break-downs. Others are people who do process installation and just need to know that if they ask for a solution, the answer will be honest and impartial.

Our product offering allows us the flexibility to look at both short and long term solutions. At HpE we want to

educate our end users of the benefits of lifecycle cost advantages and offer our expertise to support businesses.

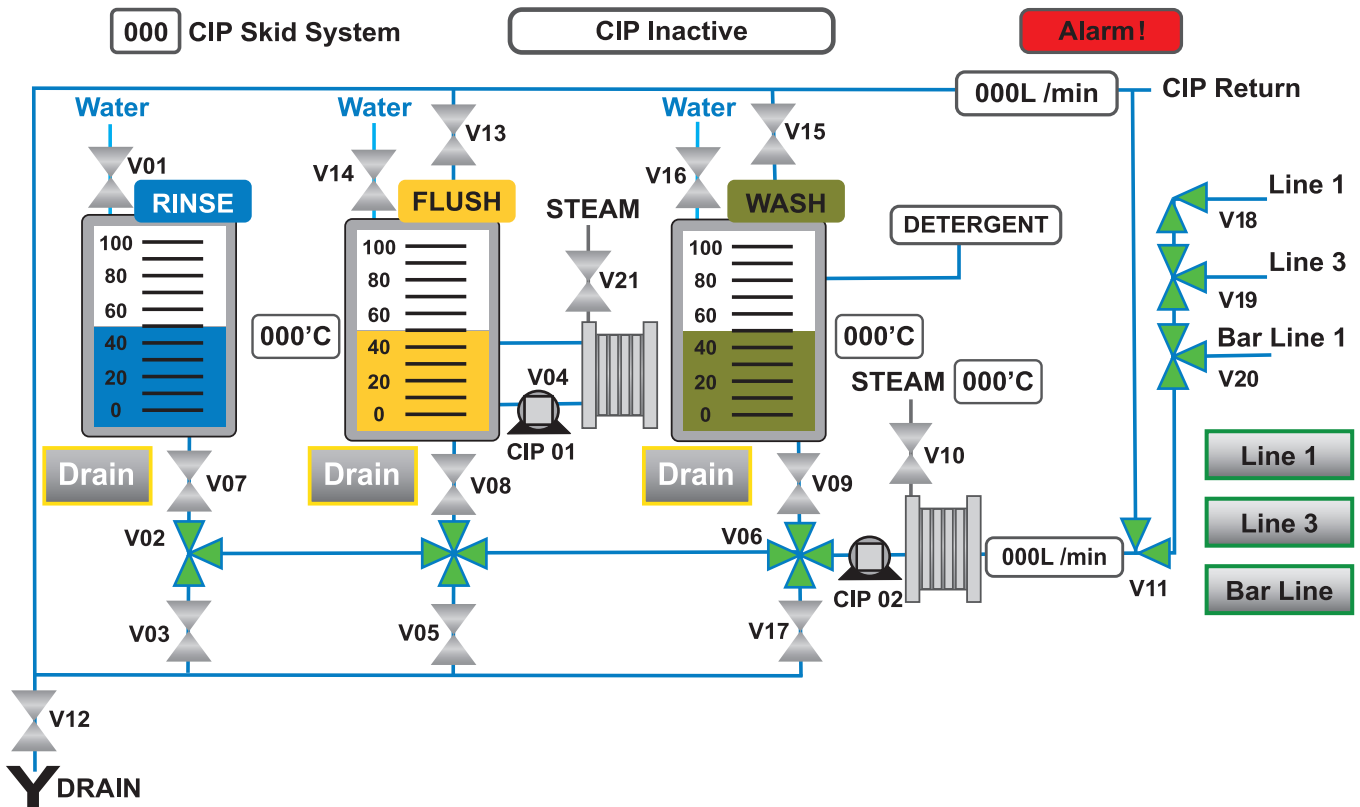
New innovative products allow food and drink factories to enhance productivity, a factory which combines outstanding technology ensures future growth and efficiency. Some manufacturers who have implemented new technology are able to offer wider range of solutions with cost-effective applications. Our product offering enables energy efficiency, reduces loss of production and minimises the cost of maintenance. Other trends influencing the growth of the global

food processing is automation. Food manufacturers who adopt advanced and automated equipment are likely to save both time and energy as well reducing operational overheads.

Our business is offering hygienic process equipment, all our products are compliant with all British and International standards. All our products have full traceability which ensures we are able to offer the best to the industry.

Low & High shear mixing – Mixing technology for curry paste, salsa, dips, dressing, confectionery and batter is

## Delivering sustainable solutions for all stages of food processing and CIP



## for a centrifugal pumps life is electricity?

more advanced than ever before, with high shear mixers being used predominantly in the food sector.

We are the sole UK distributors for HST [part of the Krones group] and are able to offer advanced homogenisation equipment. The HL homogenisers consists of a high positive displacement, reciprocating high pressure pump, fitted with a homogenising valve assembly, specially selected for each application. It uses a minimum of parts, because of the special design, a surface treatment, and by avoiding dead – areas, the HST homogeniser is highly sanitary and fully CIP-able.

The low shear in line mixing is suitable for delicate, viscous products. The unit is sanitary, flexible and ingredient saving. The Viscomx is designed to homogenise up to 6 different ingredients at a time.

### Mixing Technology

Highly advanced mixing equipment must be able to adapt to changes in texture and ingredients to meet the need for premium products such as thick and creamy mayonnaise, as well as smooth and saucy products. Mixing technology is therefore more advanced than ever before, with mixers which are highly flexible and scalable, and we offer a range of solutions ranging from intense mixing to gentle blending. Our range of mixers consist of agitation and mixers.

### Evoguard Centrifugal



- Flow rate up to 100m<sup>3</sup>/h
- Delivery head up to 80m
- Max operating pressure: 16 Bar



### HST



#### High pressure Pumps & Homogeniser

- Highly sanitary
- Fully CIP-able
- Homogenising valve is available in single or two stage configuration



### Unibloc Pump Range



#### For Food and Pharmaceutical

- Fully machined stainless or AL6KXN construction
  - Stainless, plastic and Hastelloy rotors available
  - AL6XN and Hastelloy spare parts available upon request
  - Front loaded shaft seals
  - Various inlet types and custom options
  - Front loaded shaft seals
  - Sanitary, easy-clean design
  - Horizontal or vertical mounting
- Single or double mechanical seals, O ring seals or our unique double “O Lip Seal” which combines the benefits of both O ring and Lip seal for chocolate and other difficult seal products



Unique “meat” pump uses composite rotors that are easy and economical to replace.



## 3P Prinz Twin Screw



2 pumps in one – slow speeds for product transfer, up to 3000rpm for CIP feed and scavenge

- Self-priming and capable of handling up to 60% air / liquid mix
- Can dry run (with flushed mech seals)
- Flowrates up to 180m<sup>3</sup>/hr, pressures up to 20 Bar



## FL-ENC - External gears pump

- Suitable for Chocolates, Lecithin, palm oils, fats, creams, anchovy paste
- Dose and transfer high viscosity products
- High versatility and reliability
- Completely water tight
- DIN 11851 connections



## Pump build and repair



What differentiates us from other suppliers? HpE are a provider of solutions with collectively over 100 years technical expertise in process systems and equipment. This means when we recommend our pumps we look at your complete process in detail, (suction/ discharge).

If you face various challenges, we will come to your site and inspect the process equipment. We have the knowledge within the business to offer you an unbiased solution to achieve the best production output.

We size all our pumps depending on customer requirement. Being an independent supplier allows us to select alternative cost-effective products from various trusted manufacturers which will give you better performance or longevity of use. Our end goal is always to ensure our customers plant is up and running, with the least downtime. 'We don't sell boxes, we sell solutions'.

## Specials



### FL-CH – Centrifugal pumps with helical impeller

- High performance helical impeller
- Low shear transfer of solids in suspension
- Suitable for vegetables and fruit etc
- DIN 11851 connections
- Joining clamp



### FL-CH – Monobloc external gears pump

- Suitable for chocolate and other confectionery products, starch, cellulose
- Compact design
- DIN 2576 connections
- Long life in extreme working conditions



## Graco Saniforce Range



### For Sanitary applications

Graco are global specialist manufacturers of pumps and equipment for moving medium to high viscosity fluids.

Their Saniforce range is designed specifically for the food industry and can cope with the stringent demands that the food manufacturers make.

HpE Process have been hygienic pump specialists for over 25 years and are delighted to have been appointed a Graco Specialist distributor.

The Saniforce range comprises of air operated diaphragm pumps, air operated piston pumps and bin emptying / unloading equipment.

All the Saniforce range are designed for food use and for strip-down cleaning.



## Dosing and Metering Pumps



Dosing pumps for additives, colours and flavours. HpE can supply a pump, but a dosing pump on its own is only part of the job. We also supply back pressure

valves, injectors, suction tubes and calibration tubes.

Once the liquid is dosed into a line, it also needs mixing – no problem if the product in the line is in turbulent flow, but in 2 streams can be difficult, with pump pulse rate significantly affecting mixer efficiency. HpE Process can size your dosing pump, product transfer pump and a static mixer as a complete system.

## Graco Piston Pumps



### Available in eight different models

Graco's powerful line of sanitary piston pumps move extremely difficult materials when others cannot. They have pressure ratios up to 12:1 and are ideal for low to medium viscosity materials.

- Flow rates to 53L/ Min
- Pressures to 80 bar



## Graco Diaphragm Pumps



### Available in eight different models

Graco's powerful line of sanitary AODD pumps move extremely difficult materials when others cannot. They are ideal for low to medium viscosity materials and can be fitted with ball or flap valves for different solids handling capability.

- Flow rates to 570L/ Min gpm
- Pressures to 8 bar

## Graco Saniforce Drum Unloader Pump Systems



Graco's Saniforce drum unloaders are used in combination with either the diaphragm or piston pumps. They can evacuate medium to high viscosity products from their original 55 gallon (208L) containers, in less than 5 minutes – without diluting or shearing the material.

- Extremely fast evacuation rates up to 100 gpm (400 lpm)
- Both Graco sanitary AODD and piston pump systems are available.
- Superior plate design with inflatable wiper seals – which can be adapted to any drum or bin size and shape.
- Pumps from a variety of barrels, including tapered/conical plastic drums
- Graco sanitary drum unloader pumps will unload viscosities up to 250,000 cps (including caramel)







**HpE Process Ltd deliver sustainable solutions to the following industries**

- Adhesives
- Architectural
- Automotive
- Beverage
- Bio Chemicals
- Bio Tech
- Brewing
- Chemical
- Confectionery
- Dairy
- Food
- Household
- Paints and Coatings
- Paper
- Personal Care
- Pharmaceuticals
- Ready Meals
- Water



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