

IMD

PROCESS

LIQUID & POWDER
PROCESS ENGINEERING



PRODUCT & PROJECT
PORTFOLIO

INTRODUCTION

Specialists in process systems for liquid and powder handling including hygienic pumps, powder transfer equipment, process valves, tanks and vessels, industrial pumps and booster sets, drives and controls, control and software solutions and end of line packaging to the food and beverage sector in the UK.

For our clients, we support the supply of process equipment through to managing every aspect of the project. Moving from detailed design to manufactured systems which include, industrial and process pumps, valves, tanks, vessels, platforms, process & utility pipework, design and build of bespoke control panels, project planning right the way through to on site installation and commissioning.

With over 30 years of process engineering experience to hand we can offer a highly technical and professional multi-disciplined approach to any process requirement:

- Process solutions for liquid and powder transfer
- Process design
- Pumps, valves, tanks and vessels
- Autonomous end of line packaging equipment
- Site pipework and process installations
- Electrical design & installation

We can deliver a programme of works to support and assist the client improving their process in a reliable, safe and cost-effective partnership.



OVER 30 YEARS
OF PROCESS ENGINEERING
EXPERIENCE



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PUMPS



IMD Process are specialist pump suppliers, offering excellent service levels with excellent cost savings to the customer.

We offers a full line of industrial pumps from leading manufacturers for any application, from industry, utilities, wastewater, including borehole feed, pressure boosting, dosing, all centrifugal designed pumps, progressive cavity and peristaltic pumps.

Our service includes comprehensive on-site surveys, pump selection and pump installations of any type.

We have extensive experience in the supply of all types of food grade pumps and pumping systems for hygienic manufacturing industries, including the food, beverage, biotech and pharmaceutical sectors.

We offer everything required to keep your pumps operating efficiently including pump spare parts, pump system improvement and technical services.

We believe that excellence in service and speedy solutions are what provides satisfaction for our clients.



We have **EXTENSIVE EXPERIENCE** in the supply of all types of food grade pumps and pumping systems for hygienic manufacturing industries, including the **FOOD, BEVERAGE, BIOTECH AND PHARMACEUTICAL SECTORS.**



IMD Process announces Partnership with Fristam Pumps UK

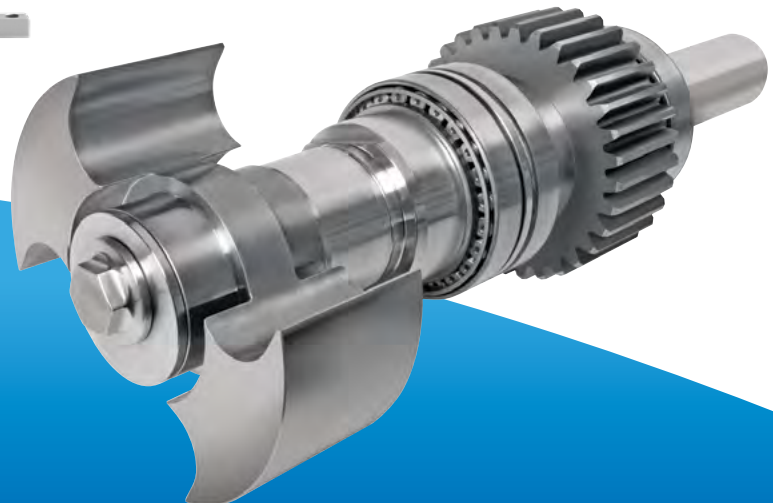
2024 leads IMD Process into a strategic partnership with Fristam Pumps UK, where UK stock of centrifugal, liquid ring, twin screw and positive displacement pumps are available within a matter of days. Thus reducing sourcing time and ensuring Food and Beverage, Cosmetics and Dairy industries continue to produce the end product.

Along side the stock of pumps held at IMD Process a comprehensive spares stock is also held to support maintenance of pumps in the industry.

Spares available in UK Stock for all Fristam Hygienic pumps.

Held within our warehouse and available for urgent delivery.

- Mechanical seals
- O ring sets
- Rotor / Stators
- Servicing Fristam FPE (Centrifugal), FZ (Liquid Ring), FSP (Shear), FDS (Twin Screw), FK and FKL (Lobe) series



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GEA Hilge Process Hygienic Pumps supported and supplied directly from IMD Process Ltd

IMD Process Ltd has a long history with the Hilge product so our knowledge is invaluable to support the supply of this product with the backing of GEA Group.



Also available from IMD Process is the Alfa Laval range of pumps covers every need for gentle, precision pumping of all kinds of fluids of all viscosities in hygienic applications.



As a global specialist in complex fluid handling, our customers' satisfaction is our top priority. NETZSCH has been developing, producing and distributing positive displacement pumps worldwide for more than 70 years.



Tapflo diaphragm pumps are some of the most versatile pumps on the market today. They can be used in a variety of installations in numerous applications. Thanks to the simple operating principle, with a compact and reliable design, Tapflo diaphragm pumps meet the demands of heavy industrial duties. Diaphragm pumps are also commonly known as membrane pumps.



PROCESS VALVES & AUTOMATION

IMD Process can offer a wide variety of process valves and solutions for automation from all leading valve manufacturers:

We can supply all valve products, from manual and actuated butterfly valves to mix proof and diaphragm valves and all the way up to full valve manifolds.

BARDIANI
VALVOLE



ALFA
LAVAL



GEA



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PROCESS VESSELS

IMD Process has access to many various options on vessels and tanks for juice, wine, brewing, through to tanks suitable for sauces, pickles, fats, oils, acids, solvents or flavourings where stainless-steel tanks are common practice while focusing on your available budgets.

We can find a solution to meet all our customers' requirements:

- Apparatus manufacture
- Storage tanks
- Pressurised tanks
- Process tanks with cooling and heating systems
- Insulated tanks
- Special designs
- Gangway systems
- On-site assembly
- Pasteurisation tanks
- Process and mixing tanks
- Concentrate storage tanks
- Rectangular or cylindrical wine storage tanks
- Rectangular or cylindrical fermentation tanks with a cooling/heating system
- Mash tanks
- Fermentation tanks for red wine mash
- CIP tanks

Process Tank Optimisation

IMD Process can also offer a complete range of products to optimise the operation of supplied tanks and vessels.

These include:

- Agitators
- Mixers
- Manways
- Instrumentation
- Sight Glasses
- Static and Rotary Cleaning heads



BULK MATERIALS HANDLING & PNEUMATIC CONVEYING SYSTEMS

Weighing and Feeding (Loss in weight and Gravimetric)

Bulk material handling systems we frequently supply include:

- Volumetric feeders and dosing screws
- Silo weighing systems
- Process weigh hoppers and batch weighing equipment
- Loss-in-Weight systems, gravimetric feeders
- Automated weigh and feed control
- Mechanical handling and conveying systems

Storage and Discharge (Silos, Tanks and Blending Cones)

Silo discharge systems we offer in this range include:

- Silos, process vessels, hoppers and bins in carbon steel, stainless steel and aluminium
- Discharge devices engineered to suit the product and applications
- Feeding and conveying systems including screw conveyors, pneumatic conveyors, belt and bucket conveyors, rope and disc, air slide conveyors, vibratory conveyors and vibratory feeders



Big Bag and Sack Handling (FIBC Bulk Bag Discharge and Filling)

Bulk bag discharge systems are developed with your business in mind, whatever the size and weight you need.

We can offer systems that are either totally automated or partly automatic, depending on your requirements.

As our services include the design, manufacture and installation for all mechanical and electrical equipment for bulk bag handling, we are able to fulfil all your needs.

Examples of features we can offer as part of these bulk bag discharge systems include loss of weight, batch or continuous weighing, accurate dosing/feeding, part bag emptying and equipment for hazardous areas.

Pneumatic Conveying Systems (Vacuum Conveying and Blowing Systems)

With our partners - Our vacuum systems have proven particularly popular in the plastics and PVC industries and we have also developed expertise in supplying to other sectors such as the food, pharmaceutical, chemical and mineral industries. With our long history of experience and innovation, you can rest assured that our knowledge of powder conveying systems is second to none.

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HEATING & COOLING

IMD Process can supply and install all forms of process and property heating and cooling to suit all customer requirements.

Our portfolio includes:

- External chillers from leading global manufacturers
- Closed chilled water loops
- Plate heat exchangers
- Hot water skids
- Air conditioning systems for temperature control of buildings and manufacturing rooms



SKID DESIGNED SYSTEMS

IMD Process provides skid designed systems for various process applications can be seen in the details below.

From fermentation to pasteurisation, blending and mixing to agitation, valve manifolds and heat treatment to manual and automated CIP systems. We supply high quality storage, processing, material handling and structural equipment achieving maximum plant efficiency within minimum downtime. We offer a full site surveying service to ensure accuracy prior to manufacture. Vessel and skid platform mounted equipment can be built to customer specifications and drawings.

CIP Manual and Automated

Hygiene is an essential part of the process of the food processing, cosmetics, pharmaceutical industries as correct cleaning of all the elements is required (tanks, pipes, pumps, etc.).

We offer automated CIP units, correctly selected and customized to guarantee a controlled cleaning and efficiency without having to disassemble the plant.



IMD Process Powder Mixer

How can the Powder Mixer Improve your process?

- Cuts in processing time by an average of 95%
- 10% average reduction in raw materials used when processing stabilisers
- Capable of dissolving solids in minutes or mere seconds as opposed to hours
- It can be used as a pump with the correct pipework attached
- Creates highly stable emulsions and suspensions with a 100% track record in improving consistency.
- Effective replacement for in-tank 'high shear' mixers, because it eliminates the clumping and foaming problems associated with these mixers.
- Designed specifically for each individual application



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CONTROL PANELS & DRIVES

IMD Process, as part of the full line supply, can specify suitable control panel and drive solutions to enhance the operation of any pumping or process requirement.

Whether you want to reduce energy consumption by using variable-speed drives, need a low-cost, high-efficiency electric motor or have an Industrial, HVAC system project, look no further than IMD Process to support and advice.

By offering an integrated package of products and services, we create added value to provide a comprehensive and affordable solution to your requirements. All this is backed up with our commitment to providing the same level of quality engineering on every project.

Controlling your process enables the process to run at its optimum while reducing overall operational costs and safeguarding the process from a number of unwanted issues.

All our panels are designed using computer aided design programs (CAD) and we produce complete operation manuals for every panel that include wiring diagrams and component details for future maintenance requirements.

Many of the process control systems we have designed and built are based on programmable logic controllers (PLC's). We use high quality PLC'S to ensure reliability and performance. Some of our customers have applications requiring supervisory control and data acquisition systems (SCADA) and/or human machine Interfaces (HMI's) packages. We are conversant with these types of systems and are always willing to quote for the design, manufacture and installation of these systems.

We can also build panels for the operation of electric motors including direct online, star-delta starters, soft starts variable speed drives and servo drives in addition to standard contact and timer relay-controlled systems for production lines and liquid pumping tasks.

Through the design and manufacture of bespoke control panels we always provide;

- A high standard of workmanship
- Access to specialist product knowledge
- Testing and installation of each control panel
- Full technical support and information
- The assurance of competitive pricing
- Full installation, maintenance and commissioning



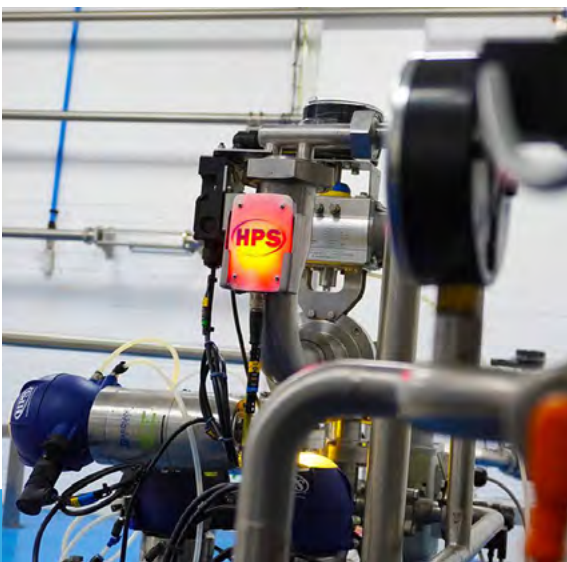


PRODUCT RECOVERY

Product-recovery capabilities that significantly reduce waste from hygienic food and beverage, pharmaceutical and cosmetic manufacturing while increasing return on investment.

If your business processes food, drink or beverages, cosmetics, personal care or household products, pharmaceuticals, chemicals, pet food, paint, spirits or just about any other liquid or wet product, IMD Process Ltd can supporting the design and supply of the correct system.

Our “pigging” and pumped liquid product recovery solutions will improve your efficiency, profits, sustainability and environmental credentials.



FULL CONTAINMENT CAPABILITIES

Mouvex® SLC Eccentric Disc Pumps have been designed to provide premium performance and the ultimate in full containment and safety in chemical-processing applications. They feature a unique seal-less design with a double stainless-steel bellows that ensures durability, safety and product containment. The result is a pump that delivers very high suction and discharge pressures that allow it to self-prime and fully maximise product containment. Ideal for safe transfer of critical high-value fluids.

In food-and-beverage, pharmaceutical and cosmetic-manufacturing applications, Mouvex® Product Recovery refers to the high utilization (or yield) of products or ingredients substantially eliminating waste – and thereby increasing profits – that would otherwise remain in suction or discharge process lines during changeovers or at the end of production runs. Too often, these fluids that remain in the piping, which can be some of the most expensive in the world, are just washed out and flushed down the drain. Or, they're recovered only with the assistance of costly add-on components, such as pigging systems. But there is a better option available



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CIVILS, FABRICATION & INSTALLATION

IMD Process are also able to advise our customers and carry out a wide range of civil works, fabrications, along with installation of pipework, mechanical equipment and electrical wiring of built systems.

We can offer a complete specialised service from consultation, to design and build, right through to completed installation. We ensure that all works are managed from start to finish so that our customers don't have to intervene and can be assured that the project will be delivered on time and within budget.

Civil Works

We have recently completed a wastewater drainage system for a new manufacturing room, hygienic floor coating, white wall cladding, right through to a large-scale forklift truck ramp.

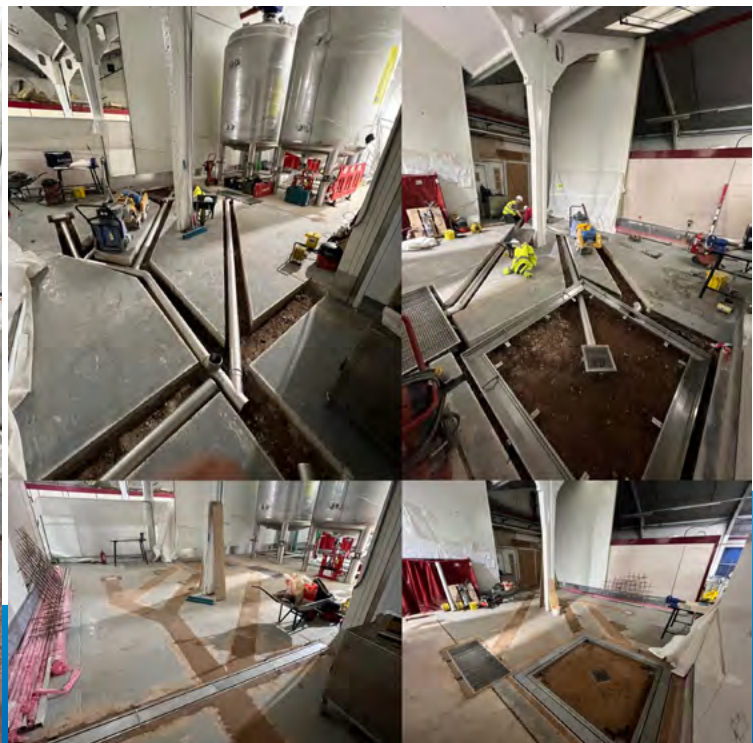


Fabrications

We have the ability to fabricate any form of platform, mezzanine floor, pipework modifications and installations, skid systems, wastewater catchment tanks, gantries and can advise on customers specific projects.

Installations

We also carry out mechanical and electrical installations relating to customer specific projects.





SERVICING AND SPARE PARTS

IMD Process can now offer our customers post project support packages and spare parts. This will ensure plant equipment continues to perform at its optimal level, increasing longevity and helping to minimise production downtime in the event of a breakdown.

Support Packages

We can tailor our support packages to meet customers individual requirements, creating bespoke service level agreements that can range from:

- Recommended spare parts
- Training
- Equipment servicing
- Process optimisation

By choosing a support package from IMD Process, you can be assured that plant equipment continues to run and perform as it was originally designed, minimise any unplanned downtime and in the event of breakdown have your plant back online in a timely fashion.

Spare Parts

Having the ability to react quickly in the event of a breakdown is becoming more and more of a priority to our customers. Long lead-times and supply chain issues mean production downtimes can increase significantly without access to critical spares.

IMD Process has a wide-ranging reach in its ability to acquire and hold spare parts from all leading pump OEM's and equipment manufacturers. We can advise on critical spares that customers should keep onsite to ensure their equipment and plant is kept at optimal performance and any downtime is reduced to a minimum.

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