



# Food sector

## Bulk storage and handling solutions for food manufacturers and processors

Bespoke bulk storage and handling systems individually designed for safe, efficient, economical handling of bulk foodstuffs. With 60 years of design and manufacturing expertise, Portasilo can devise the optimum, cost-effective solution for even the most cohesive, explosive or dusty food materials.





## OPTIMISE PRODUCTIVITY AND MINIMISE WASTE WITH PORTASILO BULK HANDLING SYSTEMS

Portasilo designs, manufactures and installs complex storage and handling systems for every type of dry bulk food product.

### Food industry clients

- » Associated British Foods
- » Cargill
- » Coca cola
- » Heinz
- » Kelloggs
- » Kraft
- » Mars
- » Mondelez
- » Nestle
- » Pepsico

**Industry leaders in bulk material storage, discharge, conveying and dosing.**

Our 60-year track record means you can rely on our expertise to design the optimum safe, efficient, cost-effective handling system for your dry foodstuffs, no matter how explosive, dusty or cohesive.

In our long experience, we have supplied economical, ATEX-rated food handling systems to major food manufacturers and processors worldwide, including Heinz, Mondelez, Nestle, British Sugar, Mars, Kellogg's, Coca Cola and many more.

Our sector knowledge and operational experience mean we understand the importance of optimising productivity, eliminating waste and minimising downtime in your food processing plant. These are our top priorities when we design, install or upgrade your handling systems. Our combined knowledge, experience and resources enable us to provide tailored solutions to meet your individual requirements.

### How can we help you?

Contact our specialists to find out how we can design, manufacture and install a complete storage and handling system for your food materials.



**UK**

+44 (0)1904 624 872



**INDIA**

+91 83907 22244

Our comprehensive range of products and services provides our customers with complete turn-key packages from a single supplier – providing significant savings in efficiency, cost and time.



## Quality-assured, safe, economical handling solutions – designed around you



Portasilo storage, discharge, batching, weighing and conveying systems can handle every type of dry foodstuff, from dusty granules to moist pelletised products. Crucially for the food industry, we design and supply fully zoned ATEX-rated systems, incorporating a host of silo safety accessories to protect against the risk of explosions.



Portasilo handling equipment is recognised as among the best in the world. Our Rotoflo discharger and silo designs have been specified in framework agreements by major food manufacturers for handling sugar and chocolate crumb.

All work we carry out on operational plants is organised to minimise process interruption and downtime. Our site-based teams understand food plant operational processes and know how to work around you to minimise disruption to your productivity.

Everything we supply, from silos to dischargers and conveying systems, is manufactured in our own purpose-built workshops, giving us full control over the quality and specification of your systems. The complete storage and handling solutions we design and install can help to improve the efficiency and safety of your plant, and reduce your running costs.

Portasilo

### The bulk handling specialists

Portasilo is a leading global manufacturer and supplier of storage and handling systems and plant for dry bulk materials. With the manufacturing resources and technical expertise we have built up over more than 60 years, you can rely on us to design, manufacture, install and maintain complete, bespoke bulk-handling systems for every type of particulate material.

Portasilo is part of the Shepherd Group, one of the UK's leading family-owned businesses, with a 120-year history of quality craftsmanship in the construction and manufacturing sectors.



## STORAGE, DISCHARGE, CONVEYING, WEIGHING AND BATCHING

### Storage

Silos designed for safe storage and free-flowing discharge



Choosing the correct silo size and geometry for the material you need to store is essential. Portasilo can advise you on the optimum vessel design, and manufacture precisely the silos you need to store and discharge your materials safely and efficiently.

Our robust, high-performance silos range from small hoppers up to large 3,500-tonne sugar-conditioning silos. Vessels up to 4.6 metres in diameter can be manufactured in one piece and delivered by road. Larger silos, up to 15 metres across, are fabricated in sections in the factory and then assembled on site.

Each silo is designed specifically for your project, and you can choose from carbon steel, stainless steel or aluminium, depending on the nature of your material and your budget. For very aggressive materials such as salt, you can choose highly corrosion-resistant Duplex steel to provide longer-life performance.

### Discharge

Reliable, versatile, controllable discharge systems



Portasilo manufactures and installs an extensive range of silo discharge systems, including mechanical, vibratory and aeration systems to suit all types of material.

The market-leading Rotoflo discharger provides a versatile, efficient solution to the problem of discharging difficult materials from silos. It is a key component for many food-handling plants and has been specified in framework agreements by leading sugar and chocolate crumb manufacturers. It offers a highly controlled, reliable means of discharging cohesive, fibrous or hygroscopic foodstuffs, promoting mass flow throughout the vessel while preventing bridging and the formation of stagnant zones. Rotoflo dischargers can feed up to four conveying lines simultaneously.

Our experienced technicians will be able to advise you on the most appropriate discharge system for your material, operational requirements and budget.

### Conveying

Conveying systems designed to eliminate waste and blockages



Portasilo manufactures a range of vacuum and pneumatic conveying systems, as well as mechanical screw conveyors for highly controlled material transfer.

Your conveying systems can be completely enclosed, to provide a clean, safe and environmentally friendly solution. For moist products, we can add dewatering screws and climate-control systems to prevent blockages in your conveying lines. We'll also design your conveyors to provide close to zero waste during the transfer of materials around your plant.





## Weighing and batching

### Precision-engineered automated systems to boost efficiency

If your plant needs to weigh and mix ingredients, Portasilo offers a range of mixing tanks, sack-tip hoppers and day hoppers to handle every type of ingredient. We will design an automated weighing and batching system to deliver very precise quantities of material into your mixers or production lines, accurately and reliably, while eliminating labour-intensive processes and the risk of human error.

Your weighing system will be specified to match your throughput rates, with a choice of gravimetric or volumetric weighing mechanisms. In all our batching and weighing systems we work to very tight tolerances and aim to eliminate waste and optimise efficiency.

## Materials handled

Portasilo bulk-handling systems can be designed to handle any dry bulk material. Here's a sample of the food materials we have handled:

- » Bran
- » Chocolate crumb
- » Corn
- » Coffee
- » Flour
- » Grain
- » Oat bran
- » Rice
- » Salt
- » Starch
- » Sugar
- » Tea
- » Wheat
- » Wheat gluten



---

Experts in providing products and turn-key solutions that maximise production processes and efficiency.



FULL TURN-KEY SERVICE PACKAGE

– MAKING YOUR LIFE EASIER

**“Portasilo delivered what they said and provided back up with no problems. The after-sales support has been excellent and they responded to any issues that we had.”**

**Kellogg’s**

When you work with Portasilo you will have access to a complete package of products and services, giving you a single supplier for your entire project.

As well as supplying all the components for your storage and handling solution, our specialists will design, deliver, install and commission the complete system.

We handle all civil engineering works, electrical control systems and install all electrical and instrumentation equipment. We will project manage every part of the process, working closely with your in-house teams, ensuring you get precisely the bulk handling system you need, delivered on schedule and to budget.

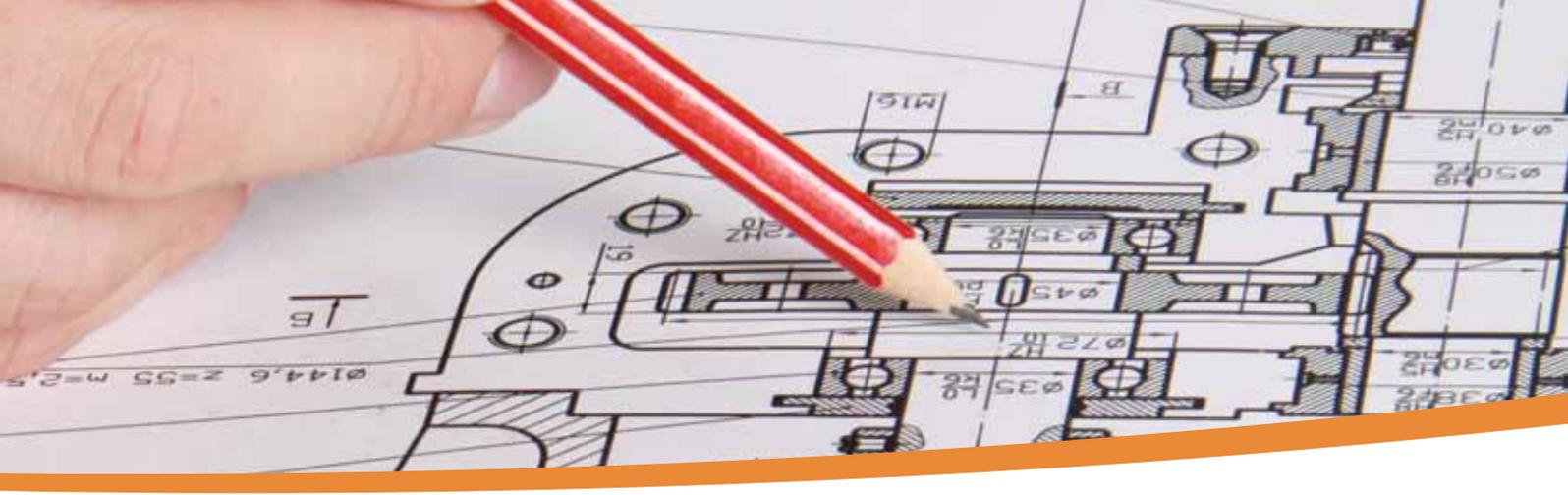
**Maintenance, servicing and upgrades – keep your plant running at optimum efficiency**

Our services do not end once your system is installed. You can call on us at any time to carry out maintenance or repair work, and to provide regular servicing to keep your plant working at optimum efficiency. We can provide ATEX upgrades to ensure your plant remains safe and compliant with the latest legislation.

Our site-based teams will work alongside your project management and engineering teams to understand your processes and systems, so we can devise an upgrade or maintenance programme that improves the productivity, safety or efficiency of your plant while minimising process interruptions.

We also stock a comprehensive inventory of spares, and offer a rapid response if you need a replacement part – helping to minimise any downtime.

Whatever the specific circumstances or limitations of your project, our specialists have the expertise to design a complete storage and handling solution to fulfil your every requirement.



## Design expertise to create your bespoke handling system

Your Portasilo storage and handling system will be individually designed for your plant. Our starting point in any system design is an understanding of your specific operational requirements.

That could mean providing an ATEX-rated system with efficient, controllable dischargers and explosion panels to handle highly volatile materials. If you have a difficult or untested material, we can carry out a detailed analysis of its properties in our test laboratories, as well as conducting discharge and conveying trials to determine the optimum handling solution for your foodstuff.

We will consider the productivity levels and transfer rates you wish to achieve, as well as any logistical difficulties your site may pose. You may need new equipment to be installed around existing operational plant, or you may have a strict budget or an urgent deadline.

Whatever the specific circumstances or limitations of your project, our specialists have the expertise to design a complete storage and handling plant to fulfil your every requirement.

### Independent accreditations – for your peace of mind

The Portasilo quality-management system is accredited to ISO9001:2008. Our factory-based manufacturing environment delivers consistently high quality standards through close control of the entire construction process.

We have achieved ISO 14001 accreditation for our environmental-management systems, and OHSAS 18001 for our occupational health and safety management system. We are also a member of the Safe Contractor health and safety accreditation scheme. Portasilo has been independently certified to the Bonsucro Standard for sugar handling. We are an accredited supplier of ATEX explosion protection equipment and systems.

**“The engineering solution was superior than other companies and installation has gone with no hitches and it was a difficult installation for anyone.”**

## Heinz

---

### Full suite of services

---

- » Design
- » Delivery
- » Civil engineering
- » Electrical and instrumentation
- » Installation
- » Commissioning
- » Project management
- » Servicing and maintenance
- » ATEX reviews
- » Spare parts supply
- » Repairs
- » Plant upgrades



# Portasilo®

Bulk Handling Systems



## UK Office:

Portasilo Limited, New Lane,  
Huntington, York YO32 9PR, UK

Telephone +44 (0)1904 624872

Fax +44 (0)1904 611760

Website [www.portasilo.co.uk](http://www.portasilo.co.uk)

Email [bulk@portasilo.co.uk](mailto:bulk@portasilo.co.uk)

## Indian Address:

Office No. - 402, Bremen  
Business Center, University  
Road, Aundhgaon, Pune  
-411007, Maharashtra, India

Telephone +91 83907 22244

Portasilo Graviflo, Porta, Augerflo, Rotoflo, Osciflo and Siloflo  
are all trade marks.

Registered Office: Huntington House, Jockey Lane,  
Huntington, York YO32 9XW, UK. Company Registration No.  
525808 (England & Wales) © Portasilo Limited 2014.  
PSO/SE/FOOD/0614