



INTRODUCTION

Severfield Modular Solutions Limited is part of Severfield plc - the UK's market-leading structural steel company. Its success is built on its commitment to delivering outstanding customer service, being responsive, dependable, and flexible, ensuring it meets all your project needs on time and in full.



A REVOLUTION IN MATERIALS HANDLING

Since its inception at Portasilo, the Rotoflo Silo Discharger has been continuously developed to ensure it meets the most demanding of applications. As a result, Rotoflo remains at the forefront of material handling technology.

We purchased the patent and Intellectual Property for Rotoflo from Portasilo in 2020, and it is now our role to produce and develop these units for our global customer base.

By working closely with our customers, we ensure we understand their specific needs and requirements, helping increase manufacturing efficiency, increase productivity, reduce downtime, and reduce maintenance costs.

With an impressive track record across multiple industry sectors, we aim to consolidate and build on Rotoflo's reputation, making it the universal first choice for silo discharging applications.

UNIQUE VIBRATION-FREE SYSTEM DESIGN

The Rotoflo discharger provides a highly efficient, reliable, and controlled flow of even the most challenging materials, without incurring the compilations, costs, or side effects associated with vibration or aeration. Rotoflo represents a cost-effective solution to the common challenges of discharging difficult materials from storage vessels, such as bridging, rat-holing, and stagnant zones.

BUILT-IN VERSATILITY

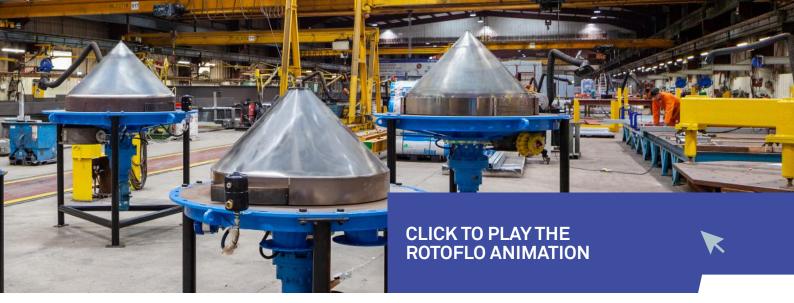
The Rotoflo is available in a range of sizes and materials construction to meet your specific application and feed rates. These versatile units can be manufactured from mild steel, stainless steel, or mild steel combined with a stainless-steel cladding. We can also provide food-safe finishes and ATEX-rated equipment to suit your requirements.

Rotoflo can be mounted in new-build and retro-fit silo applications and achieves complete, controlled, and pulse-free discharge on vessels ranging from 20m³ to 600m³ storage capacity.

Rotoflo units can be supplied with multiple outlets for simultaneous or alternate material feeding of up to four discharge points. There are also alternative drive options available, including dual and variable speed for weighing and process control applications.

LOW-PROFILE, EASY MAINTENANCE DESIGN

All maintainable items can be easily serviced without the need to empty the storage vessel. This includes the externally mounted gearbox. The low-profile design makes the Rotoflo discharger an ideal solution for plants and operations where headroom is at a premium.

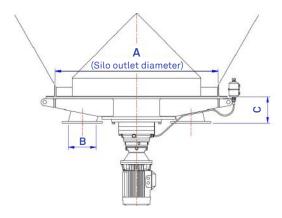


THE COST-EFFECTIVE SOLUTION

- Reduces capex
- Increasing live storage volume in your vessels
- Multiple discharging points from the same silo
- Reducing the need for downstream equipment
- Lowering power consumption
- Allowing maintenance access, without the need to empty your vessel

TECHNICAL DATA

The Rotoflo offers a range of options tailored to suit various industrial needs. Available in four sizes the Rotoflo caters to a broad spectrum of silo capacities, spanning from 20m³ to 600m³. Each model of the Rotoflo is available in both carbon steel and stainless steel. This flexibility ensures compatibility with diverse operational environments and material handling requirements.



Rotoflo	A (mm)	B (mm)	C (mm)	Through-put*
LP 1200	1200	200	250	1.5-60m³/hr
LP 1500	1500	250	300	2.4 - 80m ³ /hr
LP 1800	1800	300	350	4.8 - 120 m ³ /hr
LP 2400	2400	350	450	8 - 160 m³/hr

*Low speed gear box option or frequency inverter can be used to achieve lower throughputs

ROTOFLO ® BENEFITS

- Controlled discharge consistent feeding over a wide range of throughputs.
- Multiple outlets feeds up to four process streams from the same silo.
- Totally sealed and dust free fixed, flanged connections with no flexible joints.
- First-In, First-Out discharge can be achieved for better inventory control.
- Complete silo emptying eliminates dead storage and increases effective storage capacity.
- Suitable for a diverse range of materials from fine powders and particulates to granular products.
- Low power consumption high torque, low speed rotation requires (typically) 0.2kW per hour, per tonne discharged.
- Easy to retrofit to existing silos and vessels.
- No vibration avoids product compaction and eliminates vessel fatigue failures.
- ATEX certified units are available certified ATEX
 1D for use in potentially explosive atmospheres.
- Robust construction pressure shock resistant design, ideal with explosive materials.
- Positive shut-off reversing the drive closes the scoops, enabling positive shut off with the silo full.
- Minimal maintenance requirements increased productivity and lower running costs.
- Industry leading reliability 20+ years of troublefree operation.



ROTOFLO HAS BEEN USED FOR

Activated carbon Adipic Acid

Air Filter Dust Aluminium Silicate

Andracite

Artificial Gypsum

Astaxin

Barium Sulphate

Bentonite

Blast-furnace Slag Powder

Boric Acid

Calcium Carbonate

Calumite CEM11 China Clay Chocolate Crumb

Chromium Oxide

Diuron

Dolomite

Dried Sewage Granulate Pellets Ferrous Sulphate Heptahydrate Ferrous Sulphate Monohydrate

Fillite

Fumed Silica

Glass

Granulated Sugar

Gypsum Powder

Hydroxy EthylCellulose

Hydrated Lime
Kaolin - Anhydrous
Kaolin - Hydrous
Lead Oxide

Magnesium Oxide Magnesium Silicate Magnesium Sulphate

Maize Maize Starch Marble Powder

Microdol Milled Biomass Milled Coal

Modified Corn Starch

Morden R

Oat bran Concentrate

Opacilite

Ordinary Portland Cement
Pulverised Activated Carbon

Pulverised Fuel Ash Polyelectrolyte Polymer

Potato Starch

Precipitated Calcium Carbonate

PVC resin Quicklime

Recycled plasterboard

Rice bran concentrate

Salt Sand

Sewage Sludge Pellets

Silica - Powder
Silica - Precipitated
Sodium Bi Carbonate
Sodium Carbonate
Sodium Chloride
Soya Bean Feed

Starch Steatite

Stucco Plaster

Super Absorbent Molecule

Titanium Dioxide

Spanish Gypsum

Urea Prill Wheat fibre

Wheat Flour Corn Meal

Wood flour Zeocross Zeodent Zeolex Zinc Oxide Zinc Phosphate

TO FIND OUT MORE ABOUT ROTOFLO SILO DISCHARGER, PLEASE CONTACT US OR VISIT OUR WEBSITE AT:

www.severfield.com/products/material-handling/rotoflo

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