



COMPANY OVERVIEW

Better powder handling

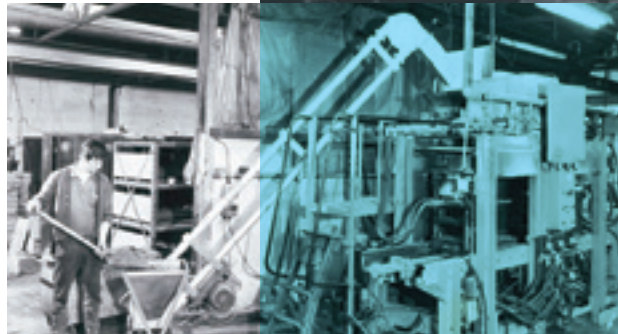
Bulk material powder handling
for industrial applications

Powder handling experts

Addressing modern powder handling challenges

Is your process changing? Are you facing challenges with new or existing equipment in your facility?

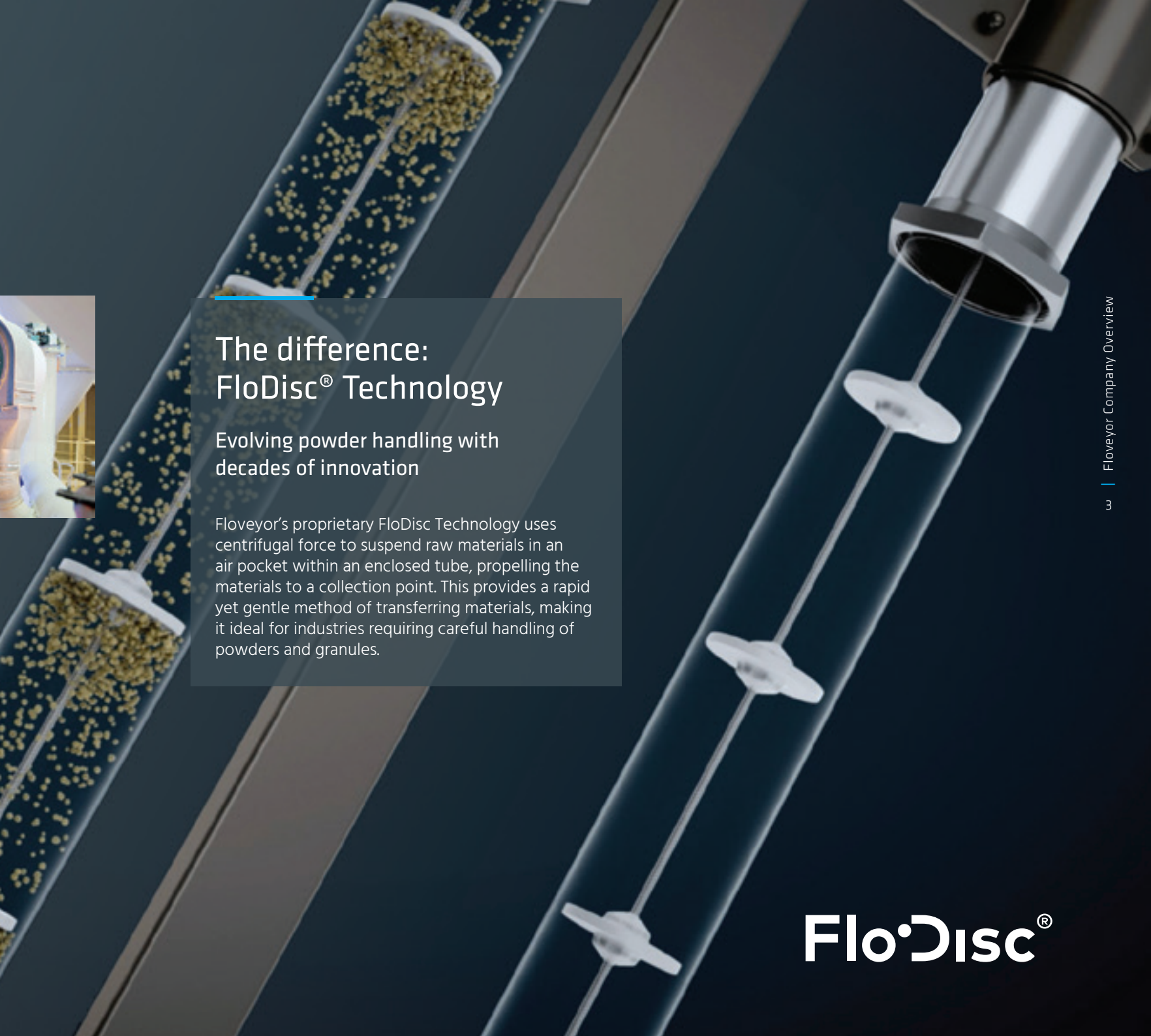
Whether you have a specific application in mind, are expanding your business, or are considering changes to your existing process, how you manage your powder handling impacts the success of your entire operation. As powder handling experts, we understand the problems and challenges faced by industry.



About Floveyor

Powder handling experts for more than 65 years

Floveyor pioneered the aero-mechanical conveyor (AMC) in 1958 and we've never stopped evolving powder handling. We've designed, engineered, manufactured, and tested more than 6,000 powder handling systems worldwide. We're known for high-quality, safe, energy-efficient conveyors and bulk material handling equipment, and our modular design allows for tailored configurations without expensive customisations.



The difference: FloDisc® Technology

Evolving powder handling with
decades of innovation

Floveyor's proprietary FloDisc Technology uses centrifugal force to suspend raw materials in an air pocket within an enclosed tube, propelling the materials to a collection point. This provides a rapid yet gentle method of transferring materials, making it ideal for industries requiring careful handling of powders and granules.

Flo·Disc®

Why Floveyor

- **Proven industry experience:** More than 65 years as a global leader in bulk material handling, delivering invaluable expertise and operational insights across industry.
- **Comprehensive powder handling solutions:** Broad equipment range addresses diverse challenges, from raw material intake and transfer to hygienic processing and dust containment.
- **Trusted worldwide:** Global reputation with many clients repeatedly investing in Floveyor systems as essential parts of their operations.
- **Quality Australian manufacturing:** In-house design, engineering, and manufacturing in Western Australia, providing strict quality control, delivery timelines, and responsiveness.
- **Deep application knowledge:** Thousands of successful installations, ensuring a detailed understanding of diverse material handling requirements and industry-specific challenges.
- **Material testing and assurance:** Dedicated materials testing facilities, ensuring recommendations and product solutions meet unique operational and material needs.
- **Global partner network:** Mature bulk powder handling partners, delivering expert service across regions and languages.





Our products

Floveyor bulk material handling equipment has been engineered for optimal efficiency and performance.



Conveying

AERO-MECHANICAL CONVEYING

TUBULAR DRAG CONVEYING

SCREW FEEDERS



Bag unloading

REUSABLE BULK BAG UNLOADERS

DISPOSABLE BULK BAG UNLOADERS

BAG DUMP STATIONS



Container unloading

SILO CONVEYORS

TRUCK UNLOADERS



Material conditioning

ROTARY LUMP BREAKERS

BULK BAG CONDITIONERS



Batching and weighing

LOSS-IN-WEIGHT

FORMULATION SYSTEMS



Truck loading

DISPOSABLE BULK BAG TRUCK LOADERS

REUSABLE BULK BAG TRUCK LOADERS

BULK BAG TRUCK LOADERS WITH
DUST EXTRACTION

Conveying

No two powder handling applications are the same, but all respond to solutions designed to meet industry challenges. Floveyor conveyor machinery and bulk material handling equipment are ideal for both greenfield and brownfield plant operations.

Floveyor powder handling solutions are engineered for specific bulk material handling challenges in various industrial applications, including food and beverage, agricultural, manufacturing, chemical processing, critical minerals, and mining and resources. Decades of R&D ensure Floveyor continually evolves for cleaner, safer, faster, and more energy-efficient industrial conveying.

Aero-mechanical conveying

Clean, safe, rapid powder handling with total batch transfers in a fully enclosed system.

The Floveyor AMC handles a diverse range of powders and granules in a single incline conveying system. By eliminating the complexities associated with competing technologies, the AMC delivers energy-efficient bulk material handling with minimal dust and spillage. High throughput and low maintenance make it an ideal solution for operations seeking reliable, cost-effective performance.



Reduces downtime

Supports CIP, COP, wet, or dry cleaning for strict hygiene with easy-access design.



Improves yield

Prevents dust, spillage, and waste while safely handling fragile or hazardous materials.



Preserves quality

Maintains particle shape, size, and blend integrity at high throughputs.





Tubular drag conveying

Distribution systems engineered for streamlined and cost-effective materials handling in challenging plant environments.

The Floveyor tubular drag conveyor (TDC) accommodates multiple intake and discharge points, enabling a sophisticated distribution system for nearly any operation. Designed to start and stop under load, it easily manages variable-radius bends and seamlessly handles both horizontal and vertical conveying. With its enclosed construction and robust design, the TDC preserves product integrity while reducing dust, spillage, and wear.

Manages complexity

Navigates complex routes with minimal space needs, streamlining facility layouts.

Cost efficient

Reduces total cost of ownership with low energy usage compared to pneumatics.

Product integrity

Ensures gentle, low-dust transport without damaging materials or blends.



Tubular drag conveyor

Linear, low-speed design for abrasive or cohesive materials.

- Handles cohesive powders and gentle inclines reliably
- Operates at low speeds, reducing wear, noise, and downtime
- Manages tough materials with minimal rope stress



Tubular drag conveyor radius

Flexible routing for bends, corners, and vertical inclines.

- Navigates tight spaces with minimal product disruption
- Covers long distances with multiple inlets and outlets
- Preserves flow consistency in multilevel plant layouts

Screw feeders

Easy-to-clean screw feeder systems deliver long-term reliability and efficiency.

Floveyor screw feeders are all engineered to the highest quality and design standards. Our modular systems support any configuration without costly customisations. Floveyor's screw systems easily manage simple horizontal material transfers, precise dosing applications requiring high accuracy, or bulk bag decanting for high-volume truck loading.



SCREW FEEDER PRODUCTS

AMC screw feeders

Handles up to 480 L storage, easily integrates with bag or bulk feed, and starts/stops on demand. It ensures efficient, dust-tight flow for versatile plant applications.

- Variable-speed drive with solid flight screw
- Dust-tight connections
- Accurate metering of material, including start/stop operations.



Storage

Preload batches and reduce wait times.



Flexibility

Adapt easily for bag or bulk feed.



Control

Synchronise flow with downstream operations seamlessly.





Bulk bag unloader screw feeders

Large-capacity stores up to 1,395 L, rapidly empties single-use or reusable bags, and meter feeds downstream with dust-tight operation for flexible, efficient powder handling.

- Cut or untie bags for rapid decanting
- Optional dust extraction plenum reduces dust
- Variable-speed screw ensures precise material flow



Speed

Rapidly empties single-use or reusable bulk bags for maximised throughput and minimal manual handling.



Dust control

Optional extraction systems ensure safer, cleaner operations when decanting large volumes of powder.



Dosing screw feeders

Precise, controlled flow for bulk or batch systems. Integrates with loss-in-weight solutions or offers simple horizontal transfer, ensuring flexible, accurate material dosing.

- Pencil auger ensures precise, metered product flow
- Variable-speed feeding
- Pairs with bulk bag frames if required



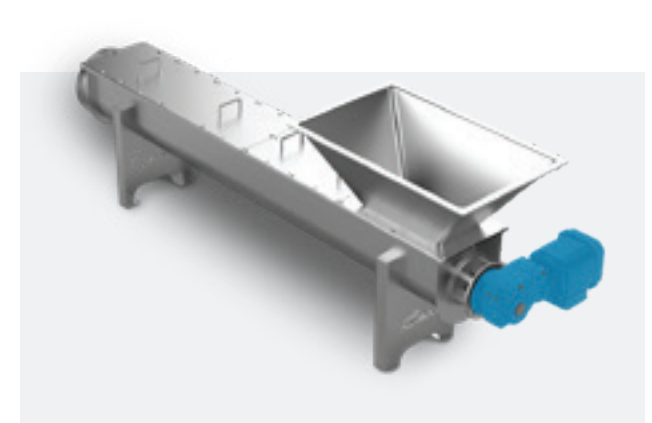
Precision

Achieve consistent batch feeding through variable-speed control or loss-in-weight integration.



Compact

The pencil auger design fits tight spaces yet delivers controlled, metered product flow.



Trough screw feeders

Meter bulk material from a number of different sources to a single discharge. Modular design accepts a wide range of accessories from intermodal containers, trucks and FIBCs.

- Accommodates multiple materials
- Mobile design for fast, flexible positioning
- Handles large lumps and provides optional lump breaking



Versatility

Connect multiple inlets—from bag dumps to truck unloading—across long horizontal distances.



Cleanability

Quick-access and optional mobility simplify washdowns, ensuring hygienic operation and less downtime.

Bag unloading

Designed to safely and efficiently discharge bulk materials with minimal dust and product wastage. We've mastered the challenges of material flow, cleanability and dust emissions.

Floveyor decanting solutions seamlessly integrate with existing production lines for optimal results. Our bag unloading solutions are ergonomically designed for operator safety and comfort and accommodate various bag sizes and types.



SMALL BAG UNLOADING PRODUCTS



Bag dump stations

Safe, ergonomic emptying of small bags into conveyors, offering flexible dust control options, flow aids, and easy access for cleaning or maintenance.

- Ergonomic loading at comfortable working height
- Optional dust hood or splash guard configurations
- Mobile or hinged design for quick access



Sanitary

Minimise airborne contaminants with integrated dust containment or simple splash guards.



Versatility

Match processing demands with flow aids, mobile frames, or hinged attachments.



Reusable bulk bag unloading

Safely handle various flexible intermediate bulk container (FIBC) sizes with forklift or hoist loading and dust containment options, ensuring efficient, repeatable discharge across multiple production runs.

- Forklift or hoist-friendly loading design
- Integrated dust containment or extraction
- Adjustable frames fit diverse FIBC sizes



Safety

Protect operators from dust and mishandling, ensuring consistent, hazard-free bag unloading.



Productivity

Minimise downtime with quick bag changes, boosting throughput across multiple unload cycles.



Disposable bulk bag unloading

Enable fast, single-trip bag decanting with integrated cutting blades and dust control, delivering efficient, safe material discharge in high-volume applications.

- Single-use FIBC cutting system
- Dust containment skirt or extraction
- Forklift- or hoist-loading compatibility



Efficiency

Drastically cut bag emptying time, with minimal spillage or dust.



Contained

Contain airborne particles, protecting operators and equipment.

Container unloading

Reduce downtime by ensuring the rapid unloading of intermodal containers and road vehicles while maintaining a seamless flow in production lines.

Our container unloader solutions handle various container sizes and material types without requiring extensive reconfiguration. This adaptability prevents bottlenecks and maximises operational throughput while ensuring stringent compliance with environmental safety and health standards.





Silo conveyors

Transfer stored material throughout production with high throughput, reliable integration, and minimal product loss. Floveyor container unloading ensures stable, continuous operation across diverse manufacturing processes.

- High-capacity flow reduces process downtime
- Enclosed design prevents product contamination
- Integrates seamlessly with existing plant and equipment



Reliability

Maintain consistent throughput, minimising process bottlenecks.



Scalability

Easily expand or adjust to evolving production needs.



Truck unloaders

Rapidly decant bulk materials from road vehicles or sea containers, ensuring safe, dust-controlled transfer and seamless integration with downstream processing equipment.

- High throughput for quick offloading
- Optional dust extraction to reduce emissions
- Adjustable infeed supports varied truck heights



Speed

Minimise unloading time to maximise operational efficiency.



Cleanliness

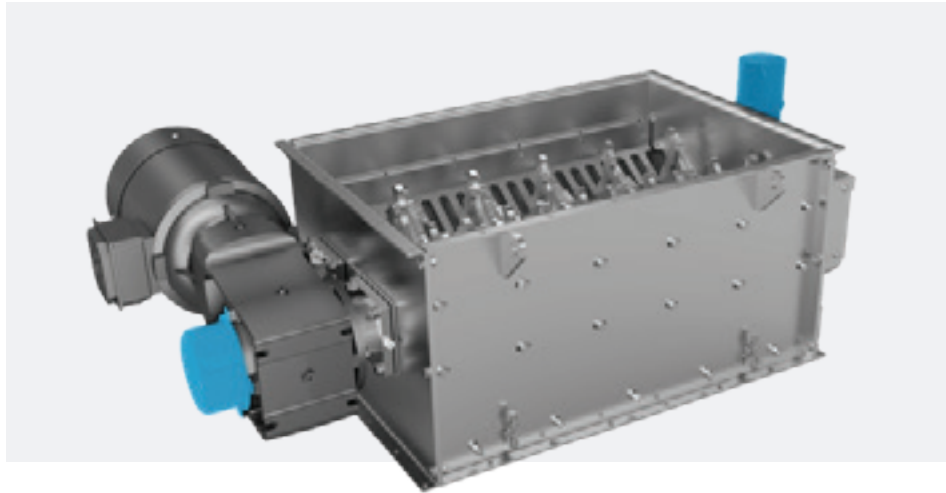
Reduce dust and spillage, safeguarding workers and equipment.

Material conditioning

Enhance the usability and consistency of raw materials to ensure they meet the high standards required for a diverse range of industrial applications. Floveyor conditioning solutions are engineered to address common issues like lumps, clumps, and metallic contamination.

Features such as inline lump breakers and advanced sieving mechanisms ensure materials dissolve properly, flow smoothly and are free of unexpected impurities for a streamlined production environment.





Rotary lump breakers

Reduce clumped or hardened powders to a uniform size, preventing downstream blockages and ensuring smoother processing. Built to integrate with conveyors, Floveyor rotary lump breakers enhance throughput and product quality.

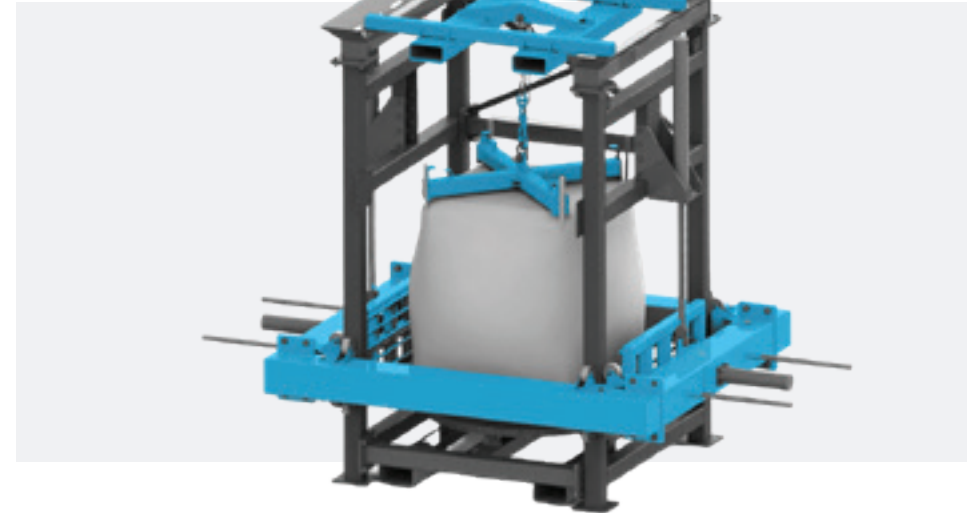
- Robust rotating blades ensure consistent breaking
- Modular design for easy system integration
- Quick-access panels for simplified maintenance

Efficiency

Prevent blockages and downtime by ensuring uniform material flow.

Quality

Maintain product integrity, reducing rework and maximising throughput.



Bulk bag conditioners

Hydraulic rams break down hardened material within FIBCs, restoring flow and ensuring effective downstream processing. Often used in conjunction with lump breakers or conveyors.

- Hydraulic compression loosens compacted, brick-like bags
- Adjustable compression settings for varied materials
- Safe operator controls reduce manual labour

Flow

Optimise downstream processes by preventing flow stoppages from caked material.

Throughput

Enhance production speed and reduce downtime through consistent, easily discharged product.

Batching & weighing

Engineered for medium-sized manufacturers who are aiming to automate and refine their production processes. Integrating seamlessly into existing facilities, these systems offer precision in handling diverse ingredients, ensuring high-quality outputs with minimal waste.

Weigh filling machine systems facilitate accurate dosing and blending of multiple ingredients, improving consistency and efficiency. Their compact design optimises space and enhances production flow without the extensive cost of complete automation.





Loss-in-weight

Precisely batch materials from a bulk bag unloader using weigh cells, dosing screw feeders, and conveyors to provide accurate, repeatable feeding for downstream processing.

- Real-time load-cell weight monitoring
- Automated batch control ensures consistency
- Modular set-up suits varying process demands



Accuracy

Minimise waste with precise weight-based material dosing.



Efficiency

Automate repetitive batching tasks for faster operations.

Formulation systems

Unify multiple bulk bag unloaders and micro-ingredient bag dump stations. Precisely batch materials via recipe-based controls for consistent, efficient, and repeatable production.

- Central control for recipe-based ingredient dosing
- Automates bulk and micro feed integration
- High-accuracy measurement prevents cross-contamination



Precision

Ensure consistent blends and reduce manual intervention for repeatable quality.



Scalability

Expand or reconfigure easily to accommodate future formula changes.

Truck loading

Built for safe, rapid transfer of bulk materials to road tankers and intermodal containers. These systems offer versatility in handling a diverse range of materials without loss or contamination.

Floveyor truck loaders minimise dust emissions and material waste, crucial for maintaining clean and safe work environments. A Floveyor truck loader provides reliable, high-speed loading solutions — up to 105 tph, depending on material — that reduce downtime and increase productivity.



Reusable bulk bag truck loaders

Rapidly transfer product from multi-trip FIBCs into road vehicles while controlling dust, ensuring safe, repeatable high-volume loading for multiple bag cycles.

- Mobile AMC design for quick relocation
- Forklift-friendly FIBC frame suits various multi-trip bags
- Optional dust collector ensures cleaner unloading



Efficiency

Load tankers swiftly while minimising spillage and downtime, thanks to robust FloDisc technology.



Safety

Integrated dust containment systems and controlled bag handling enhance safe environment.



Disposable bulk bag truck loaders

Rapidly unload granular materials into road tankers with a robust design, minimal dust, and easy forklift manoeuvrability. Modular solution for single-trip FIBCs provides process line versatility.

- Cutting blade for quick bag emptying
- Rubber skirt reduces fugitive dust
- Forklift-ready frame for rapid positioning



Productivity

Accelerate unloading while keeping labour needs and downtime low.



Cost-effective

Handle one-way bags without complex or permanent infrastructure.



Bulk bag truck loader with dust extraction

A high-volume solution for dusty materials providing safer, cleaner road tanker loading. Pierce and unload single-trip FIBCs while capturing airborne particles through integrated extraction.

- Integrated dust collector for containing emissions
- Forklift-ready design ensures quick repositioning
- High throughput with minimal oversight



Throughput

Continuously decant large volumes while minimising downtime and manual handling.



Contained

Protect operators from airborne particles during rapid unloading operations.

Where we work

Floveyor's expertise in powder handling is born from decades of working closely with our customers across industry and geography. Our vast experience informs how we design and engineer powder handling systems for industrial applications.

We know the challenges and pitfalls of specific materials and have consulted on thousands of process lines all over the world. Our expertise is broad, but we excel in six major categories.



Food & Beverage

Dust- and contamination-free conveying designed for safety and hygiene.

Floveyor food processing machinery and equipment prioritises operator safety, reduces dust exposure, ensures seamless batch transfers, and is gentle on blends and mixes.

BAKERIES

BREWERIES

COFFEE ROASTERIES

DISTILLERIES



Agriculture

Precision conveying for applications like animal nutrition and agrichemicals.

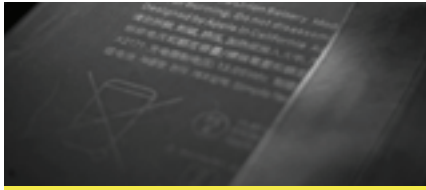
Floveyor has a long history working in stockfeed, animal nutrition and pet food applications. We are known for gentle, dust-free, and contamination-free conveying.

FERTILISERS

AGRICHEMICALS

ANIMAL NUTRITION

SEEDS & GRAINS



Critical Minerals

Contamination-free conveying for safe handling of premium products.

Achieve rapid throughputs and total batch transfers while maintaining product integrity and maximising yield. The fully enclosed design provides the lowest possible friction with the inner surface of the conveyor to preserve the integrity of fragile, crystalline materials.

BATTERY MINERALS

RARE-EARTH ELEMENTS



Mining & Resources

Safe conveying in tough conditions, extreme climates and continual operation.

Floveyor's fully enclosed design provides rapid throughput and total batch transfers. Our ATEX compliant systems provide contamination-free conveying with heavy use and challenging conditions.

EXPLOSIVES

ADDITIVES & PROCESSING CHEMICALS



Manufacturing

Rapid and safe conveying for industrial powders and granules.

The energy-efficient solutions are known for easy integration with existing plants and equipment, are ATEX compliant, require minimal maintenance and are easy to clean.

BUILDING PRODUCTS

CARPETS & TEXTILES

PAPER, PULP & WOOD

POLYMERS & PLASTICS



Chemical Processing

Intrinsically safe conveying for hazardous materials.

Engineered to create a dust-free, contamination-free and low-noise environment. Easily integrates into complex plants for high availability and energy-efficient conveying.

ADHESIVES & SEALANTS

LIFE SCIENCES

PAINTS & COATINGS

SOAPS, CLEANING & DETERGENTS

Our approach

We work in partnership with each customer to ensure every Floveyor powder handling system delivers long-term benefit.

From initial consultation through to implementation, our materials handling experts are on hand to guide customers in the right direction for optimal powder handling.

Our services



Discovery and solution modelling

Each engagement begins with a focus on the desired outcomes for the project and the development of the right process solution and the choice of suitable equipment.



Applying our expertise to guide concept through to reality

Next, we make our commitment to better powder handling a reality. We carefully guide our project through Design, Engineering, Manufacturing, QA/QC, and FAT. Our project teams work directly with the client or EPC/M to deliver the project management and data documentation requirements.

Global support and expertise

Local support anywhere in the world and fast intervention are key requirements for the reliable, safe, and economic operation of your process line, but our services go well beyond this.

Multilingual training and knowledge transfer allow the efficient use of our equipment. Machine and process line modernisation is done in accordance with new requirements. We are also able to deliver suitable spare parts, as required.



RESPONSIVE TURNAROUND



MULTIPLE TIME ZONES



SPECIALIST TECHNICAL SUPPORT





Find out how to optimise your plant with a Floveyor powder handling system. Book a free demonstration or consultation with our powder handling experts.

FLOVEYOR.COM



Better powder handling