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СИСТЕМЫ УПАКОВКИ И РОЗЛИВА LOW CARE, SMARTFIL Технические характеристики



LOW CARE BULK POWDER FILLERS

GEA big bag fillers are designed to pack a wide variety of powdered products into flexible bags (FIBCs). We have two types of low care big bag fillers — SmartFil BBF and HYGiBulk C1. Features including bag inflation and base compaction maximize the available volume of the bag and result in a stable pack that reduces the risk of spillage and product loss. Using a unique top weighing system, the GEA range of big bag fillers ensures reliable and accurate filling by eliminating the effect of bag inflation on final fill weight.

Model SmartFil BBF - Big Bag Filler

The SmartFil BBF is a manual, entry level, low-cost solution for low throughput producers. With a simple design that comprises a stainless steel support frame, filling and weighing system, this easy to operate unit is ideally suited to less critical FIBC applications. An operator places a pallet on the filling platform before attaching the bag to the support frame and filling head; once the bag is filled, the bag is removed from the filler using a pallet hoist. Intended uses include small production throughput and applications and in which pallets are allowed in the clean room.

Key Features

- single operating station (manual)
- bag sits on pallet during filling
- bag range: 1–1.6 m
- weighing: optional
- pallet in the packing room, forklift transfer

GEA HYGiBulk C1 – Bulk Bag System

The GEA HYGiBulk C1 is available for medium and low care applications where bags are filled whilst sitting on a pallet. The small footprint makes this solution an ideal step up from the SmartFil BBF adding more features for improved operation at higher rates.

Similar to the SmartFil BBF, the HYGiBulk C1 fills bags whilst supported on a pallet. An operator can manually remove the filled bag for secondary closing and storage. The height adjustable compactor base is configurable within a 600mm range.

Key Features

- Single Operating Station – Semi- Automatic
- Bag Suspended during filling
- Powder feed via optional rotary valve, vibrating conveyor or cross-feed auger
- Fixed bag hooks
- Bag Adjustment Range 600mm
- Weighing during filling
- Bag base compaction (via pallet)
- Modified Atmosphere Packing capable
- Bag closing via tie-off at head
- Optional Heat Sealer (separate station)

GEA SmartFil M1 – Versatile Powder Packing System

Small, low volume plants often require a flexible packaging solution to meet the needs of the global food industry. The GEA SmartFil M1 has been designed from the ground up to meet this challenge.

Modularization

Global demand for food powders is growing and the market requires flexible solutions to meet the changing needs of manufacturers.

Many products that are manufactured in powder or granular form require specific solutions for safe and reliable primary packaging. GEA recognizes this need and has developed a modular packing solution to deliver the flexibility required by the manufacturing plant over time.

Starting out

Emerging markets, low volume producers and pilot plants all require a compact and flexible low rate packing operation to meet their needs. With diverse product portfolios, primary producers require the ability to tailor their packing solution accordingly. This is where the all new GEA SmartFil M1 delivers!



*Complete GEA SmartFil M1 with
auger, continuous sealer and
downline*

Product applications

The dairy and food industries demand high standards of quality, reliability and hygiene, so everything we do is done with these requirements in mind.

The ability to configure the GEA SmartFil M1 to meet the specific needs of an industry or product application was paramount in the development of this new packaging system.

Many of the key features built into the design are ideally suited to the main products that they will pack. Handling powdered or free-flowing products is very different to handling granular or pelletized products and the solution must therefore be matched to its application.

Below are just a few of the main applications that the GEA SmartFil M1 can be configured to handle.

- Food ingredients
- Coffee and freeze-dried products
- Dairy ingredients
- Pet food

Food ingredients

Powdered food ingredients that require a carefully controlled auger metering system will benefit from this option on the GEA SmartFil M1. The vertical auger design with integrated shut-off is well proven technology that is adapted from other filling systems in the GEA range.

With an optional integrated deaeration probe, this filling system will enable food ingredients manufacturers to safely and reliably fill powdered products into bags, boxes or drums.

With a continuous heat-sealing configuration, the SmartFil M1 can consistently produce finished products into 25kg open-mouth bags with either glued closure or sewn closure if required. Alternatively, the impulse sealing option is ideally matched with plastic bags that are commonly used with boxes or cartons.



Auger feeder

Coffee & freeze-dried products

Coffee and freeze-dried products tend to be fragile or friable and therefore demand a gentler approach to filling.

For these applications a vibratory feeding solution can be employed to finely meter the product for high accuracy filling. This type of feeding solution eliminates rotating or close contact parts from the product stream, thereby reducing the risk of product breakdown.

To ensure the integrity of the finished product, these types of products are typically filled into flexible plastic bags inserted into cardboard boxes. For this application, a dust free bag clamping system was chosen.

Once filled, the neck of the plastic box liner can be easily inserted into an impulse type sealer for hermetic sealing.

The integrated height adjustable conveyor enables simple and quick adjustment to suit the selected box/drum size, allowing the operator to work at an ergonomic height. A pivoting conveyor can be added to compensate for height adjustment when the GEA SmartFil M1 is connected to an optional integrated downline.



Vibratory feeder



The right solution

Planning for future requirements can be difficult. A modular system like the GEA SmartFil M1 can make difficult decisions easy.

With more than 100 possible variants, the GEA SmartFil M1 can be configured to suit almost any application. Left-hand or right-hand, powder or granule, bag or box - solutions are able to be configured to meet the requirements of existing plant operations.

Having so many options available can be confusing! The filling and packaging experts at GEA can configure the correct solution

for the application and advise on future proofing in case of unforeseen requirements into the future. Being a modular system, making changes or upgrading to add features such as deaeration or powder sampling at a later time is easily done.

The integrated operator control panel can be easily re-configured to enable the new functions as required.



Different options that can be swapped (auger, vibratory feeder, deaeration probe, continuous sealer, sealer/sewing, impulse sealing)



Vibratory feeder, bag, seal & sewn

Safe solutions for safe products

Global food producers instinctively know that the safety of their products has a direct impact on consumer confidence and ultimately on the value of their brands.

With an increasing awareness of good manufacturing practices, consumers need to be sure that the foods they consume have been treated with the highest standards of food safety. Manufacturers are constantly looking for new and innovative solutions to protect their employees and the products they handle.

Process overview

Each year, the global food industry handles millions of tonnes of powdered product in bags, boxes and drums.

At any stage in the process, there is present a risk of contamination and so it is expected that the handling of product and packaging is done in a reliable and safe manner.

The GEA SmartFil M1 is designed to meet all of the latest safety and hygiene standards thereby providing peace of mind to the plant owner and operator.

Footswitch operation and soft-close mechanisms ensure safe operation whilst high grade surface finishes to the product contact surfaces reduce the risk for potential contamination.

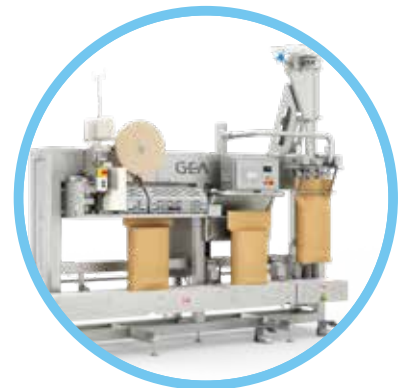
Being a semi-automatic operation, it is important that the filling system is easily accessible for cleaning. This was part of the design concept. Low height, accessible components make maintenance and cleaning operations easier, thereby minimising potential downtime and lost production.



Vibratory feeder, box & impulse seal

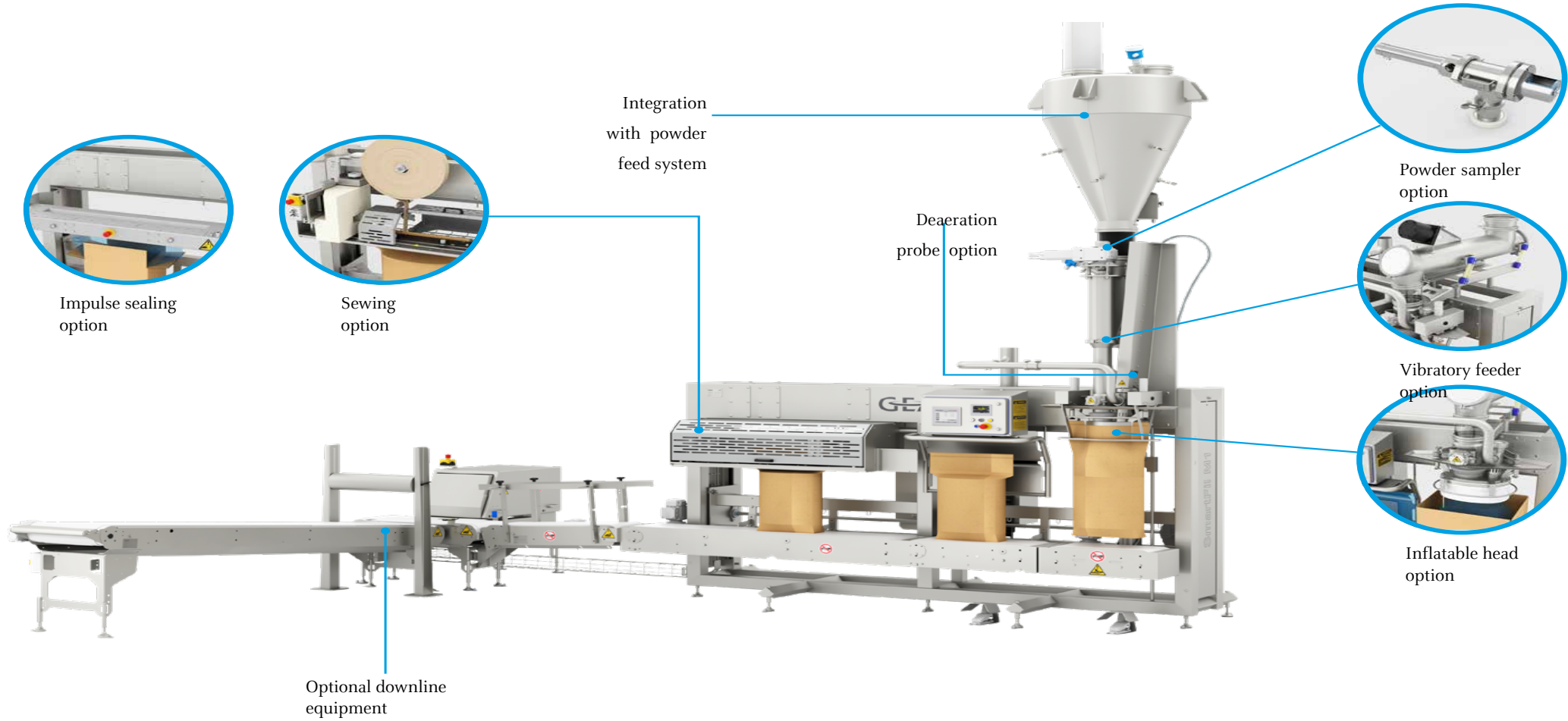


Auger, box & impulse seal



Auger, bag, seal & sewn

Integrated solution



Technical specifications

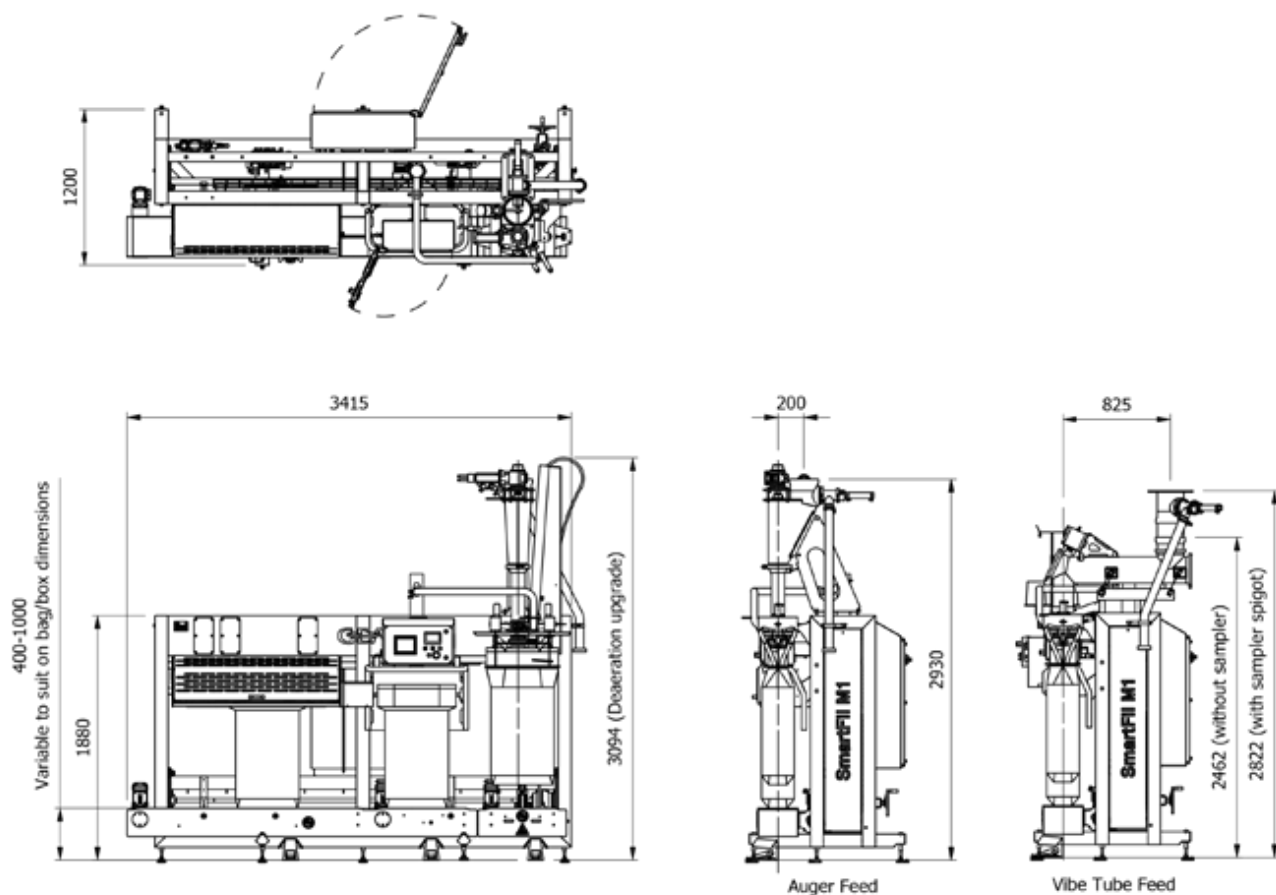


		Auger / Bag / Foldover	Vibe / Bag / Foldover	Auger / Bag / Sewn
Packing type	Kraft Bag with PE liner (step top)	x	x	
	Kraft Bag with PE Liner (flush top)			x
	Box with Liner			
Handling	Right to left	x	x	x
	Left to right			
Metering device	Vertical auger			x
	Vibratory feeder		x	
Sealer	Foldover sealer			
	Sewing sealer			x
	Impulse sealer			
Upgrades	Deaeration probe			L1
	Spool sampler			L1

* GEA SmartFil M1 - versatile packing solution



Vibe / Bag / Sewn	Auger / Box / Impulse	Vibe / Box / Impulse
x		
	x	x
x	x	x
	x	
	x	
x		x
x		
	x	x
L1	L1	L1
L1	L1	L1



Key features:

- Configurable for a variety of different powder applications.
- Key items, such as metering system, filling head, sealing and closing, machine handing, etc. are selectable to order.
- Configurable for handling multiple packaging formats which are common in Food and Dairy production.
- Selectable sealing and closing system for various types of receptacles.
- Automatic filling to a pre-set weight.
- Sealed filling head for dust free filling.
- Integrated base compaction and dust collection hood.
- Ergonomic machine operating height.
- Stainless steel construction.
- Optional on head deaeration probe to help remove interstitial air.
- Optional spool powder sampler for quality assurance inspection.

Key benefits:

- Versatile machine design.
- Simple adjustment between packaging sizes.
- Simple and safe operation.
- Accurate filling minimises product give-away and increases yield.
- Improved product safety and hygiene.
- Improved operator health and safety.

Key specifications:

- Material type: Dry, free-flowing Dairy and Food powders or granulated materials.
- Nominal filling capacity: 120 bags/hr (3.0 tonnes/hr @25kg product and operator dependant).
- Filling accuracy: 30g @ 1SD (product dependant)

Equipment standards:

- Hygiene
 - Designed in accordance with: USDA-3A;
 - HEDG where applicable and practical;
 - N 1672-2 Food Processing Machinery;
 - SO 14159 Safety of Machinery; are used as the basis of our design.
- Machine safety: ISO 12100:2010 and standards derived from this.
- Hazardous Environment Compliance Method: ATEX; IEC; NFPA.

Machine construction:

- Constructed from stainless steel, or approved food grade materials.
- Material for all other parts, selected to suit optimal performance.
- All product contact parts are finished with a Ra $\leq 0.8 \mu\text{m}$ surface finish or better.

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