

# Inline Bag Filler



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## Overview

The GEA Avapac IBF (Inline Bag Filler) range is designed to pack a wide variety of products at low to medium filling rates.

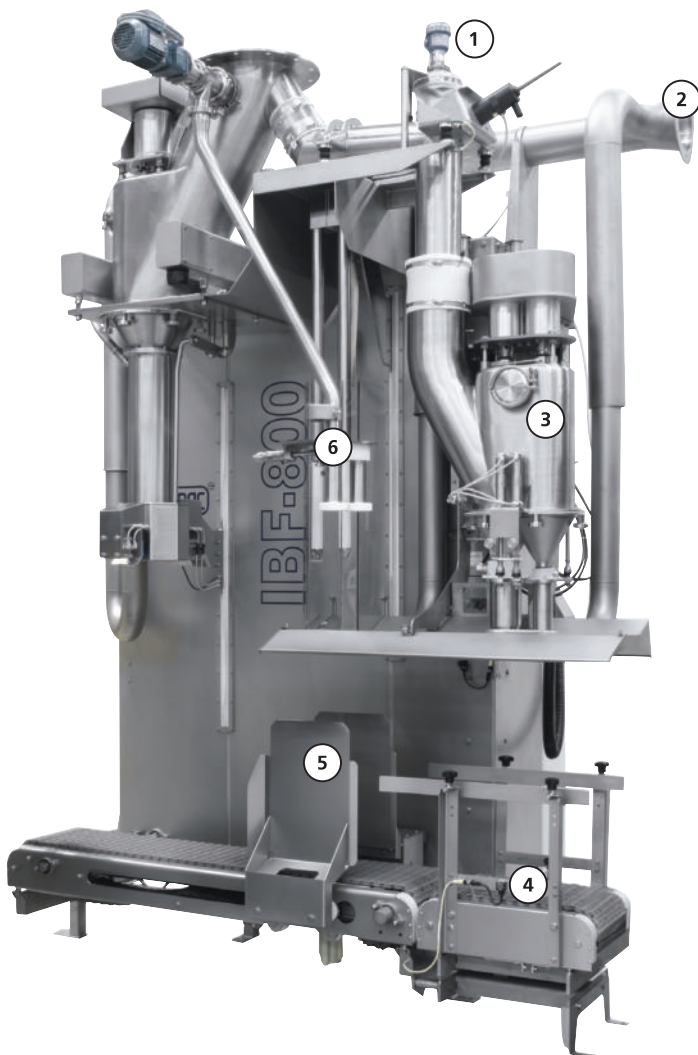
The IBF range features a bottom-up filling system which maintains a constant distance between the outlet of the filler tube and the top of the powder in the bag. By doing this, the displacement of air is kept to a minimum and the resulting dust emissions are dramatically reduced over more conventional systems.

This makes the GEA Avapac range of fillers very clean and safe in operation and the reduced product loss through better dust control means greater product yield for our customers.

PLC control with touch-panel operation allows complete control of the packing line from the filler, whilst product configurations held in the control system take care of a wide variety of packing parameters for multiple products.

All IBF fillers are constructed of stainless steel which makes them ideal for both high hygiene and corrosive products.

Options for CIP cleaning and / or change parts are available for customers wishing to pack a variety of products on the same machine.



### 1. Integrated Controls

Touch panel operation for all filler functions and product selection controls. Real-time weight indication during filling cycle.



### 2. Integrated Dust Extraction

Removes dust at source to ensure safe operation when handling the dustiest products.



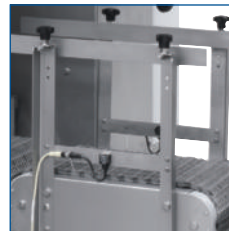
### 3. Top-up System

Provides accurate filling at higher packing rates.



### 4. Integrated Weighing

Provides feedback to main fill control to ensure consistent bag weights are maintained.



### 5. Bag Stabilising

Ensures reliable and safe handling of difficult products.



### 6. Optional Product Sampling

Enables quality samples to be taken for testing.



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## Design Objectives

- To be integrated in fully automated bag packing lines or, alternatively to work as a stand-alone unit as part of an existing downline system
- Highest filling rate whilst ensuring best accuracy
- Reliably pack a wide range of products for both food and non-food applications
- Handle a wide range of bag sizes and types
- Manual (IBF 450) or automatic bag presentation
- Compliance with hygiene standards
- Provide integrated and extensible control for other equipment in a bag handling plant
- Ease of operation and maintenance

## Features

- Extensive use of stainless steel construction
- Single powder inlet connection
- Range of filling capacities
- High accuracy
- Bottom-up filling system
- Integrated dust control
- Extensible PLC control for additional line components
- Powder sampler (option)
- CIP (option)
- Modified Atmosphere Packing CO<sub>2</sub> / N<sub>2</sub> (option)

## Standards

(a) EU Directives and their harmonized standards:

- Machine Safety 98/37/EC;
- "ATEX" 94/9/EC;
- Noise 2003/10/EC;
- Electromagnetic compatibility 2004/108/EC;
- Pressure equipment 97/23/EC;
- Hygiene EHEDG Guidelines; and compliance with

(b) US standards covering:

- Hygiene USDA Guidelines; FDA Codes of Federal Regulations – (CFR series 21)
- Machine Safety OSHA 1910 Subparts O&S; ANSI B11.19; ANSI/PMMI B155.1; NFPA 70 & 79; ANSI/ISA 12.10.05

## Bag requirements

- Length = 750-950mm; width = 480-600mm
- Multi-wall Kraft paper bags with PE internal liner
- Bag over powder = 250-300mm



## Process Engineering

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