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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://gea.nt-rt.ru/> || gsg@nt-rt.ru

СИСТЕМЫ УПАКОВКИ И РАЗЛИВА IBF

Технические характеристики



Inline Bag Filler

The GEA 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 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.

Inline Bag Filler

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
- To have manual operation is an optional extra
- 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 CO₂/N₂ (option)
- Available in Left-hand or Right-hand configurations

Standards

(a) U Directives and their harmonized standards:

- Machinery 2006/42/EC;
- ATEX 2014/34/EU;
- Electromagnetic compatibility 2014/30/EU;
- Hygiene EHEDG Guidelines; and compliance with 1935/2004/EC

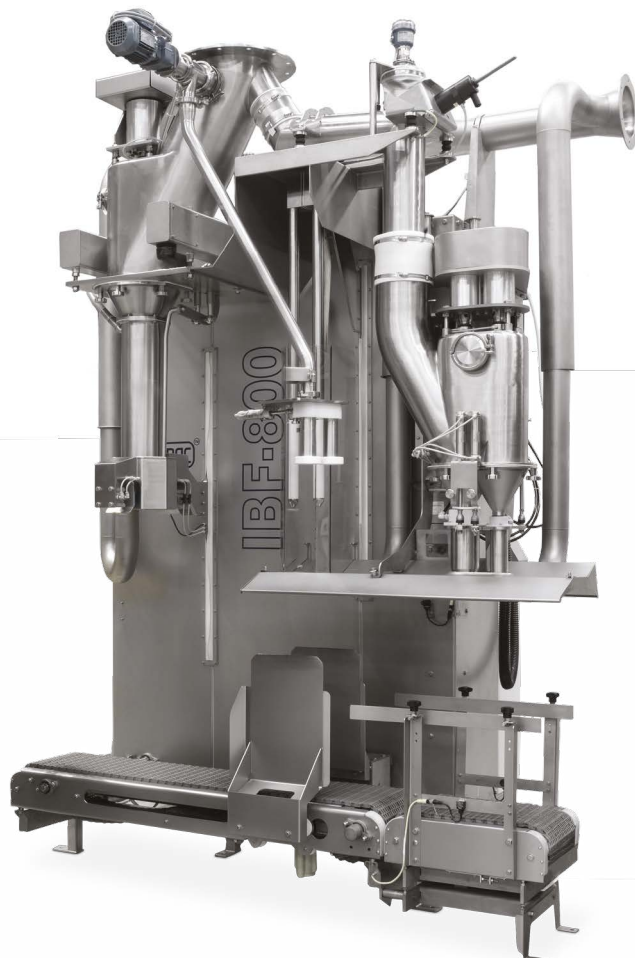
(b) S standards covering:

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

Bag requirements

- Length = 750-1000mm; width = 500-600mm
- Multi-wall Kraft paper bags with PE internal liner
- Bag over powder = 300 mm

IBF800



Specifications	IBF-450P	IBF-600P	IBF-800P
Rate	4.5 t/h average	6 t/h average	8 t/h average
Capacity	180 bags/h	240 bags/h	320 bags/h
Accuracy	60 g @ 1 standard deviation	25 g @ 1 standard deviation	20 g @ 1 standard deviation
Heads	Bulk	Bulk + Topup	Bulk + Coarse & Fine Topup
Weighing System	Mettler Toledo		
Space Requirements	4.2 x 5.8 x 9.2 m (H x W x L) with Bag Presenter, Neck Stretcher, & Heat Sealer		
Residual Oxygen level	<3.5% at time of packing		
Dust Extraction	2200 m³/h @ -2 kPa		
Electrical Load	Filler 3 Ph + E + intrinsic E 22 kVA estimated average load	Filler 3 Ph + E + intrinsic E 25 kVA estimated average load	Filler 3 Ph + E + intrinsic E 27 kVA estimated average load
Sampler Type	2 position		
Vacuum	75 m³/h @ -90 kPa		
HMI	Siemens / Allen Bradley 12"		
Comms	Profibus / Ethernet IP		
PLC	Siemens / Allen Bradley		
Motors and Gearboxes	SEW Eurodrive		
Drives	SEW Eurodrive		
Bag Range	750-1000 x 500-600 x 140-170 mm (HxWxB)		
Bag Type	Block / pinch bottom type open bags		
Empty Bag Capacity	70 bags (2 stacks)		
Compressed Air	150 Nm³/h avg, 250 Nm³/h peak @ 7 bar		
Nitrogen (MAP)	1 Nm³/h avg, 50 Nm³/h peak @ 6 bar		
Carbon Dioxide (MAP)	40 Nm³/h avg, 200 Nm³/h peak @ 4 bar		

MAP = Modified Atmosphere Packaging

All performance data achieved under test conditions with standard packaging materials. All specifications and dimensions subject to revision without notice.

Automated Packing Lines

Design Objectives

- Provide automated bag filling and closing operation
- Provide optimum level of automation
- Ensure ultimate product quality and integrity of operation
- Handle a wide range of bag sizes and types
- Compliance with hygiene standards
- Provide integrated and extensible control for other equipment in a bag handling plant
- Ease of operation and maintenance

Standards

(a) EU Directives and their harmonized standards:

- Machinery 2006/42/EC;
- "ATEX" 94/9/EC;
- Electromagnetic compatibility 2004/108/EC;
- Pressure equipment 97/23/EC;
- Hygiene EHEDG Guidelines; and compliance with 1935/2004/EC

(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/PMMA B155.1; NFPA 70 & 79; ANSI/ISA 12.10.05

Features

- Fully integrated control and operation
- Stainless steel construction
- Modular link plastic belt to all conveyors
- Range of filling capacities
- Extensible PLC control for additional line components
- Optional connectivity to remote SCADA systems
- Interfacing to palletising systems
- Product quality control

Equipment Options

GEA provides additional options:

- Powder sampling
- CIP cleaning
- Box and Drum filling
- Siemens or Allen Bradley PLC and operator interface
- Hazardous area compliance



Automated packing line

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