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BG SERIES
FIBC filling systems

Semi-automatic filling and weighing systems

The **BG Series Bulk Bag Fillers Series** are heavy-duty, semi-automatic systems designed for operation by a single operator. Their unitized frame provides superior scale protection and accuracy, and allows for an easy and inexpensive installation. Their user-friendly interface,

push-button operation station and automatic metering make filling easy, fast, accurate and safe. All systems from the **BG Series** can be customized for your application and engineered according to your specifications.

Applications

The BG Series is ideal in various industries when it comes to bagging dry granular, flaked or powdered materials.

Chemicals: Copper hydroxide, detergent, fertilizers, pigments, polystyrene, etc.

Food: Coffee, flour, rice, soy proteins, sugar, etc.

Minerals: Coal, concrete mix, graphite, kaolin clay, salt, etc.

Feed: Fish food, pet food, soybean seeds, seeds, corn seeds, etc.



Support arm filling systems (900 Series)



The **900 Series** is a modular system which means it can be turned into a complete semi-automatic bulk bag line at a later time. Each model from this series is equipped with a dual holder arm and manual height adjustment for the filling of various bag sizes.

- BG-901 – No-scale filling systems
- BG-902 – Pallet deck filling systems
- BG-903 – Tilt conveyor filling systems
- BG-904 – Powered conveyor filling systems

Features and benefits

- Four-load cell scale deck with digital weight meter
- Two-piece filling spout with an expander band providing a dust-tight seal
- 8" slide gate with pneumatic positioner for bulk and dribble feeding
- SpeedAc NXT controller (except for BG-901)
- Type 304 stainless steel contact surfaces
- All controls housed in NEMA 4-rated enclosures

Options

- Upgrade to Compact Logix programmable logic controller and AB PV600 + interface
- Bag inflation
- Densification systems (vibrator)
- Powered pallet dispenser
- Accumulation conveyor (motorized or gravity)

Production rate

Up to **20 BPH**

Technical data

Typical equipment dimensions*:	Length: 90" (2286 mm) Width: 90" (2286 mm) Height: 73" (1854 mm) + bag height
Accuracy:	+/- 2-3 lb (+/- 1 kg)
Maximum scale capacity:	4400 lb (2000 kg)
Bag size:	Up to 85 ft ³ (2400 L)
Estimated shipping weight:	3000 lb (1400 kg)
Pneumatic requirements**:	40 SCFM for bag inflation (10-15 s) 2 SCFM for the rest of the cycle
Dust collecting requirements:	400 CFM (8500 NI / min) 4,5" diam. dust connection
Electrical requirements:	120V / 3 ph / 60Hz / 12 amps 460V / 3 ph / 60Hz / 6 amps
Ambient temperature:	40°F to 95°F (5°C to 35°C)

* Equipment height varies depending on bag height

** If applicable

Rotahold™ fill systems (930 Series)



The **BG-930 Series** is engineered so the entire filling process can be completed with the operator remaining in one position for an extremely productive operation that saves time and money. The hanging hooks are installed on a rotating frame, which allows the bag straps to be hung from a single position with ease.

- BG-930 – Rotahold™ Pallet deck filling systems
- BG-931 – Rotahold™ Conveyor filling systems

Features and benefits

- Four-load cell scale deck with digital weight meter
- Two-piece filling spout with an expander band providing a dust tight seal
- Rotahold™ back support for easy loading
- Automatic bag strap release
- 8” slide gate with positioner for bulk and dribble feeding
- Compact Logix (PLC) and PV600 + user interface
- Type 304 stainless steel contact surfaces

Options

- Bag inflation
- Densification systems (vibrator)
- Motorized height adjustment for different bag sizes
- Powered pallet dispenser
- Accumulation conveyor (motorized or gravity)

Production rate

Up to **30 BPH**

Technical data

Typical equipment dimensions*:	Length: 100” (2540 mm) Width: 93” (2362 mm) Height: 92” (2337 mm) + bag height
Accuracy:	Up to +/- 2-3 lb (+/- 1 kg)
Maximum scale capacity:	4400 lb (2000 kg)
Bag size:	Up to 85 ft ³ (2400 L)
Estimated shipping weight:	3500 lb (1600 kg)
Pneumatic requirements**:	40 SCFM for bag inflation (10-15 s) 2 SCFM for the rest of the cycle
Dust collecting requirements:	400 CFM (8500 NI / min) 4,5” diam. dust connection
Electrical requirements:	460V / 3 ph / 60Hz / 6 amps
Ambient temperature:	40°F to 95°F (5°C to 35°C)

* Equipment height varies depending on bag height

** If applicable

Hanging bag fill systems (1000 Series)



With the **1000 Series from STONEPAK**, the bulk bag is filled in a hanging position and is lowered for settling and exiting. Quick and simple bag loading allows for great production rates. The effective design of the dual-wall filling tubes and the dust collection port ensure a clean working environment.

Features and benefits

- Cantilever design allowing easy access around the machine
- Bag hanging system allowing for easier filling process for some products
- Filling tube with inflatable spout sealer
- Four tension load cells with digital weight meter
- Electrical weight controller

Options

- Bag inflation
- Powered conveyor deck
- Densification systems (vibrator)
- Automatic bag straps release
- Powered pallet dispenser

Production rate

Up to **15 BPH**

Technical data

Typical equipment dimensions*:	Length: 98" (2489 mm) Width: 64" (1626 mm) Height: 154" (3912 mm)
Accuracy:	Up to +/- 2-3 lb (+/- 1 kg)
Maximum scale capacity:	4000 lb (1800 kg)
Bag size:	Up to 85 ft ³ (2400 L)
Estimated shipping weight:	3000 lb (1400 kg)
Pneumatic requirements:	1 SCF 5-100 SCF (with pneumatic settling)
Dust collecting requirements:	400 CFM (8500 NI/min)
Electrical requirements:	230V / 3 ph / 60Hz / 12 amps 460V / 3 ph / 60Hz / 6 amps
Ambient temperature:	40°F to 95°F (5°C to 35°C)

* Up to 52" bag height, equipment height varies depending on bag height

FIBC equipment peripherals

Powered pallet dispenser and positioner

The pallet dispenser and pallet pusher automatically place an empty pallet on the bulk bag filler. This feature helps the system increase its speed and reduces human effort. The

pallet dispenser is designed to load up to 900 lb (408.2 kg) of pallets.

- Main frame made of structural steel
- Empty pallet magazine
- Automatic unstacking device
- Latching bars to secure the pallet stack
- Lifting device to separate the pallet stack and place an empty pallet on the conveyor (electric motor driven)
- Low level sensor included
- Position sensor included
- Pallet guide



Powered and gravity accumulation conveyor

Accumulation conveyors allow the operator to remove the filled bag more quickly from the filling station. The operator has time to place an empty bag on the bulk bag filler and start a new filling sequence before returning to close the

previous bag on the accumulation conveyor. This feature will significantly increase the production rate of the system.

- Conveyor type: motorized roller conveyor (loop-to-loop)
- Roller material: zinc-plated steel
- Roller diameter: 3.5" (89 mm)
- Roller pitch: 4.375" (111 mm)
- Nominal width: 54" (1372 mm)
- Conveying level: 18" to 22", depending on the application
- Power: 0.5 hp (0.37 kW) TECF, with brake
0.75 hp (0.55 kW) if over 110" (2 794 mm)
- Conveying speed: 50 ft/min
- Safety guards included
- Sensors included



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Premier Tech World Headquarters

Premier Tech Chronos
1, avenue Premier
Campus Premier Tech
Rivière-du-Loup (Québec)
G5R 6C1 CANADA

☎ 1 418 868-8324

☎ Toll-free (USA/CAN) : 1 866 274-1287

Regional Offices and Manufacturing Plants in America

1881 West North Temple
Salt Lake City, UT 84116
United States

3101 Hayneville Rd
Montgomery, AL 36108
United States

35, boulevard Industriel, C.P. 5617
Caraquet, NB E1W 1A9
Canada

Avenida José Alves de Oliveira, 710
Jundiaí - SP
Brazil

