

JEM International SSF-Super Sack Filling System



JEM Super Sack Fillers provide dust tight filling environments with accurate weightings and transferable weight data.

The Super Sack Filling System consists of a 5,000 lb. platform scale, high output gravity gate feeder with bulk and dribble feed, accordion flex connection and adjustable framework.

The NTEP-Approved IT6000E digital controller includes communication ports for retrievable weight data. Surge hoppers, belt feeders, screw augers, slide gates and butterfly valves are also available.



JEM International

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Filling Controller – Weights & Measures Approved for Automatic Filling of BigBags / IBCs

IT6000E

BIGBAG



IT6000E BIGBAG is a universal filling controller for automatic gravimetric filling of BigBags and IBCs in W&M approved applications.

The controller connects to load cells or scales of all types and weight ranges including for Ex-area applications, e.g.:

- Floor scales
- Pit-mounted scales
- Tension load cells.

Single and multiple bags can be filled in semi or fully automatic operation.

The controller is available in two styles:

- **Compact stainless steel enclosure** for desk or wall mounting
- **Panel-mount version.**

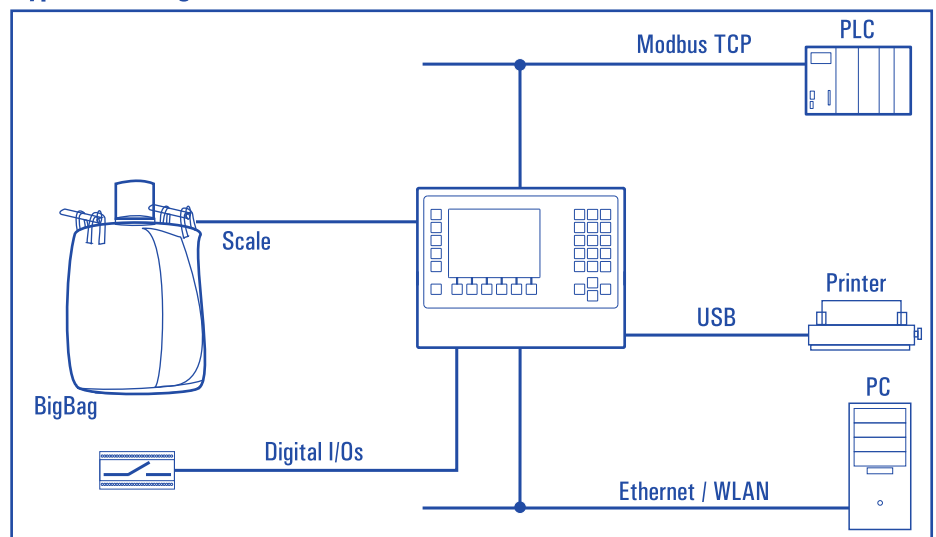
The fill controller offers functionality to conform to ISO 9001 standards:

- **Accurate fill control** through fast signal processing, trend-sensing preact adjustment and weight tolerance check.
- **High operational security** through extensive monitoring functions and simple operator control.
- **Recording of all data** of single or multiple fillings with optional hardcopy printout or data transfer.

IT6000E BIGBAG controls the filling by screw feeder, sliding gate or vibratory feeder. Additional control for BigBag lifts, air fan for inflating an inner bag liner and the bag transport to and from the weigher is available.

Operation via clear onscreen menus is **simple** and ensures **fast and error-free** operation and minimum training requirements.

Typical Setting:



Fast and accurate filling

- Fast signal processing (50–800 updates/sec)
- W&M approved resolution of 6,000 d with a max. preload of 80 %, internal resolution 524,000 d
- 1- or 2-speed filling
- Automatic trend-sensing preact adjustment.

Capturing of all relevant data

- Comprehensive statistics function with mean weight, standard deviation, number of fillings etc.
- Input, printout and transfer of application-related data, e.g. order number, batch number, shift or operator ID etc.

Security

- Power fail-safe storage of data
- Password protection
- Battery-backed real-time clock.

Monitoring functions

- Fill time and flow rate check
- Tare check.

Simple integration

- Stand-alone or remote-controlled operation possible
- Accept, Start, Interrupt functions are possible from external switches.

Simple and secure operation

- Operator is guided on a high-contrast color TFT display. Numeric keyboard with multiple key assignment for the entry of alphanumeric data, tactile acid-resistant membrane keyboard and softkeys or optional full-size PC keyboard
- Sequence and operation are individually configurable. This eliminates unnecessary operator actions
- Up to 99 products with pertaining values for target weight, weight tolerance, etc. can be stored against a 2-digit ident number.

Weighing electronics

- Integrated signal amplifier to connect up to 16 strain gauge load cells in 4- or 6-wire mode
- Calibration as single or multiple-range and as single or multi-interval scale.

Ethernet connection (option: WLAN)

Integrated Ethernet interface with configurable IP address, for data transmission or remote diagnosis over Internet.

Serial interfaces

- For printer (option)
- For data transfer to PC (option)
- RS232, 20mA CL, RS422 or RS485 selectable, protocol/baud rate configurable.

Integrated USB interface (option)

To connect printer, scanner or PC keyboard.

Digital interfaces / Modbus TCP

- Opto-isolated inputs/outputs (24 V) for connection to external relays
- Option: external RS485 relay module
- Option: connection to PLC or SCADA system over Modbus TCP (Slave).

Analog output

15 bit resolution, 32,000 divisions, 0–10 V, 2–10 V, 0–20 mA or 4–20 mA.

Electrical connections

110 (–15 %)–240 (+10 %) VAC;
50 / 60 Hz, option: 12–30 VDC,
power consumption max. 20 VA.

Operating temperature

–10 °C (+14 °F) to +40 °C (+104 °F),
max. 95 % relative humidity, non condensing.

Accessories

Remote display, relay module etc.

Ex2/22 version

For installation in Ex zones 2 and 22.

Typical BigBag filling cycle:

- Product selection – input of target weight, number of bags and pertaining data
- Attach BigBag to weigher
- Ready status – start fill cycle
- Tare check and/or auto-tare function
- Lift BigBag (manually or with optional software extension)
- Inflate inner bagliner
- Fill with 1 or 2 speeds with simultaneous monitoring of fill time and material flow (option: single or multiple raw material compaction controlled via setpoints)
- Lower BigBag (manually or with optional software extension)
- Tolerance check with auto-preact adjustment
- Capture of statistical data – printout and data transfer of gross, tare and net weights, date, time, consec. number, product ID and associated data – also batch data at batch end
- Message 'Done', 'Ready to start' for next filling.

Construction:

Desk/wall version



- Stainless steel housing, IP69K, NEMA 4X
- Dimension W x H x D: 330 x 239 x 134 mm (13.0" x 9.4" x 5.3")

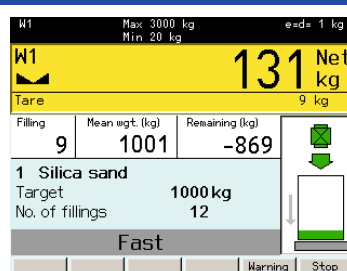
Panel-mount version



- Stainless steel housing, fascia plate protected to IP69K, NEMA 4X
- Dimension W x H x D: 285 x 224 x 69 mm (11.2" x 8.8" x 2.7")
- Cutout in panel: 268 x 207 mm (10.6" x 8.1")

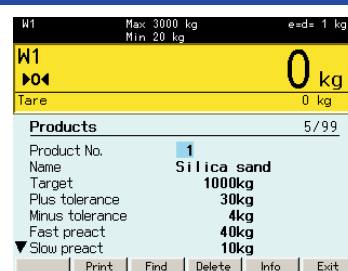
Display / operation:

Filling



Filling with display of product data and deviation from target weight

Product File



Template for entry of product data in product file, softkeys for simple operation

Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC

Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R61



EC approval as non-automatic weighing instrument, MID type approval certificate as AGFI



NTEP approval as indicating element



ETL certified in accordance with UL 60950-1 and CSA C22.2 No. 60950-1



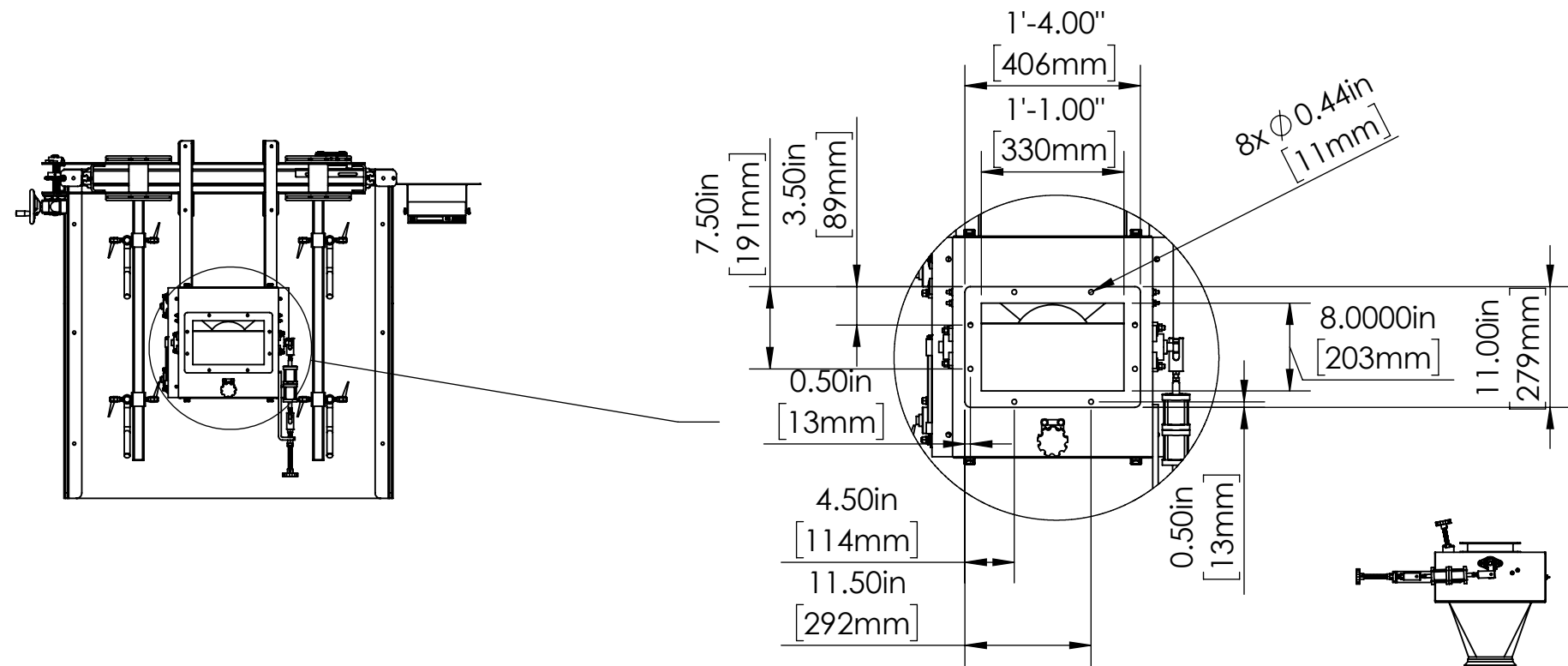
EMI compliance with FCC Part 15



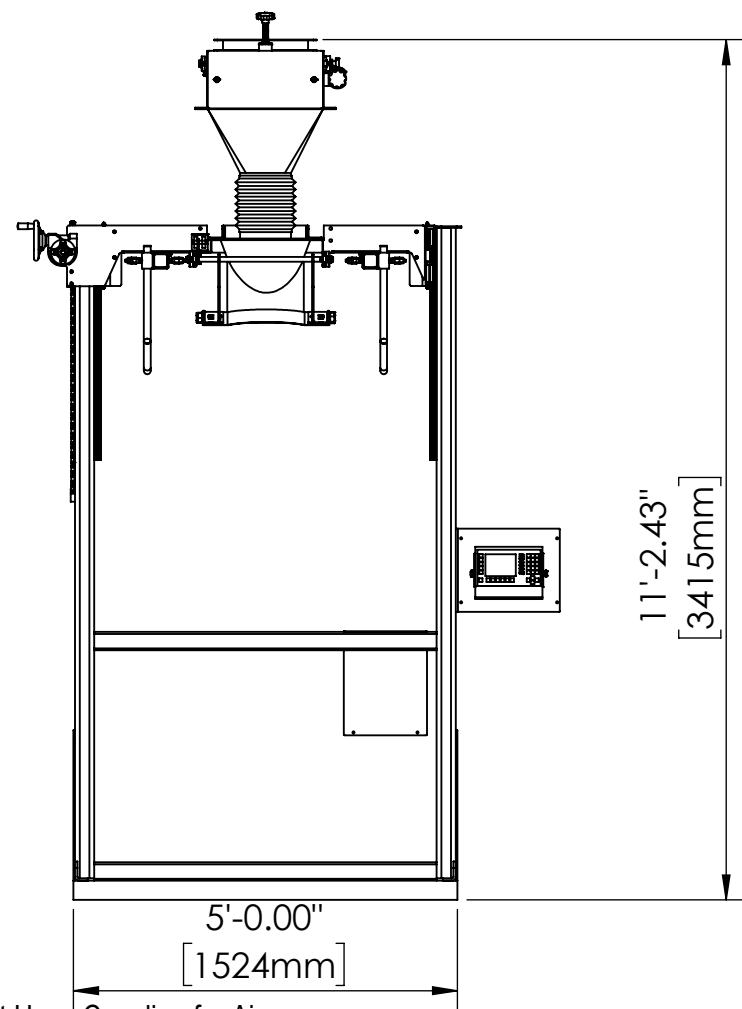
Measurement Canada: Approval as non-automatic weighing instrument



Ukraine: Approval as non-automatic weighing instrument

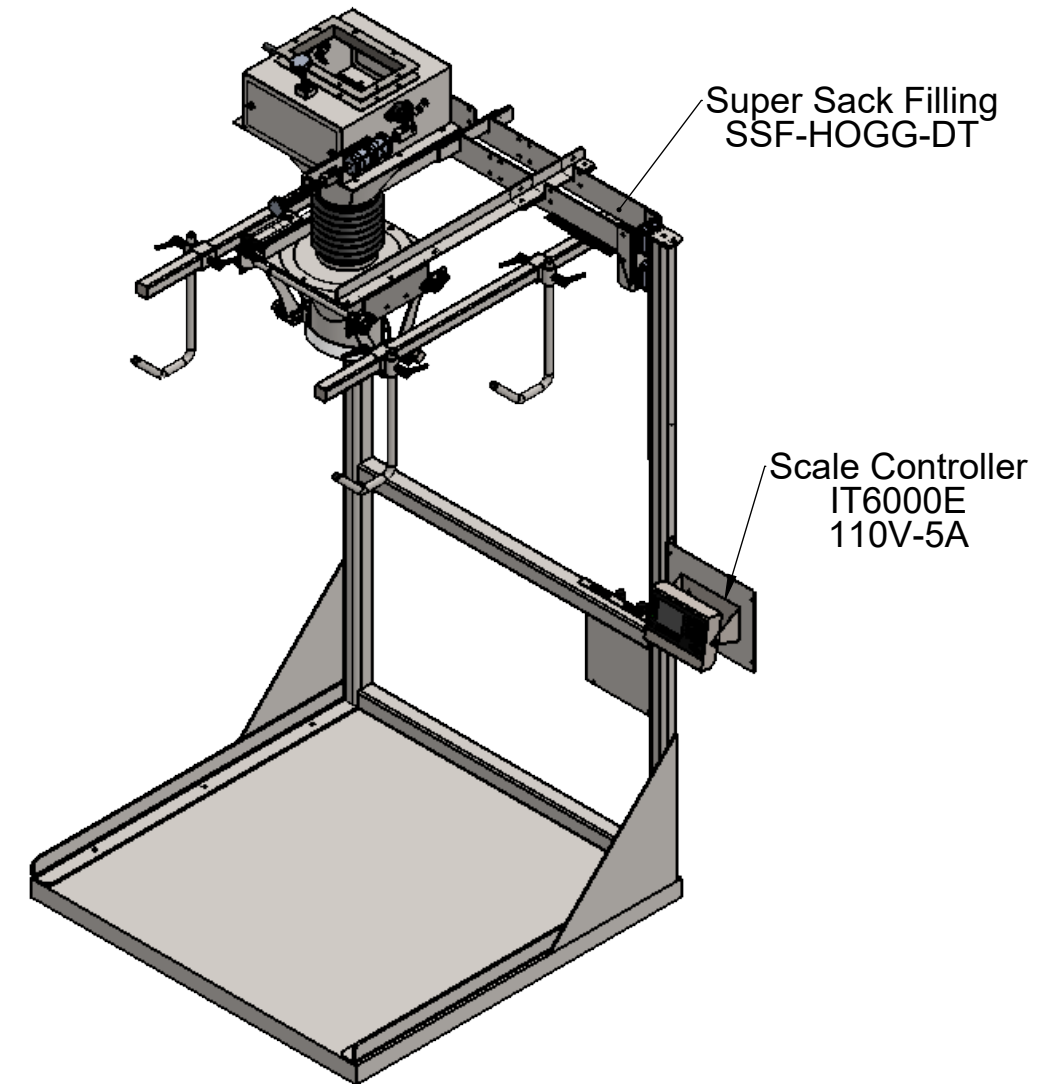
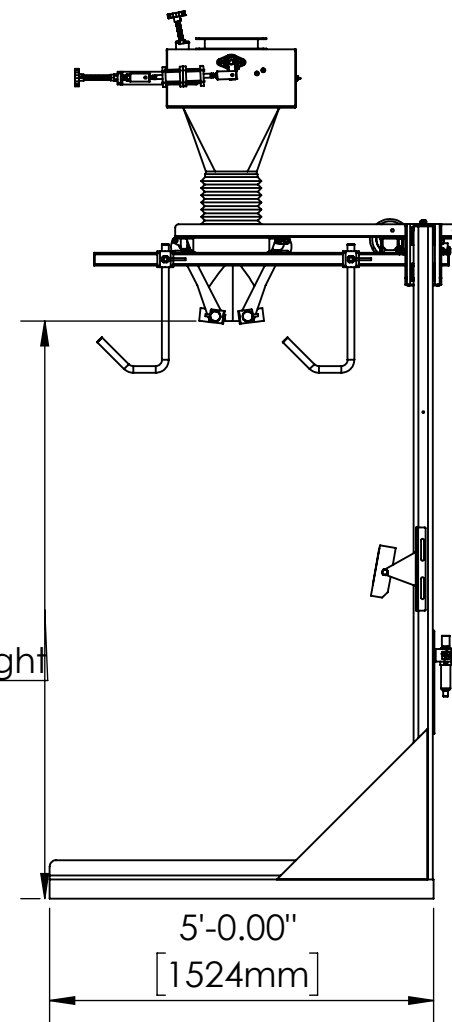


DETAIL
SCALE 1 : 15



Note

- 1/4" Quick-Disconnect Hose Coupling for Air (McMaster-Carr Part#: 6534K46)
- Inner diameter of Air Hose is recommended larger than 1/4"



APPROVED

☐ As Shown	☐ As Noted	☐ As Shown	☐ As Noted
Name : _____	Name : _____	Name : _____	Name : _____
Signature : _____	Signature : _____	Signature : _____	Signature : _____
Date : _____	Date : _____	Date : _____	Date : _____
Note : _____	Note : _____	Note : _____	Note : _____

NAME/NOMBRE	
Factory Layout Option 313	
FOR/PARA	
SSF- Super Sack Filling System	
Drawing NO. FLO 313	Drawn by: Tiago Date: 3/23/2023 Rev: 01