

BIG BAG WEIGHING & BAGGING MACHINE

DBB 1000

DEFINITION AND APPLICATION

The **DBB 1000** is a gravimetric feeding machine designed to deliver automatically a specific quantity of product into big bags according to weight set point. Sautelma Rotolok DBB 1000 weighing and bagging machine can be used in all types of industries for any kind of powdered and granular materials.

Depending on customers needs and different degree of automation, Sautelma Rotolok can supply simple machine but also complete automated bagging lines which include other equipment such as:

- Empty pallets distributor
- Big bag compacting device (vibrating table,)
- Roller conveyor
- Wrap around machine
- Access platform
- Safety barrier
- Dedusting station
- Control command cubicle

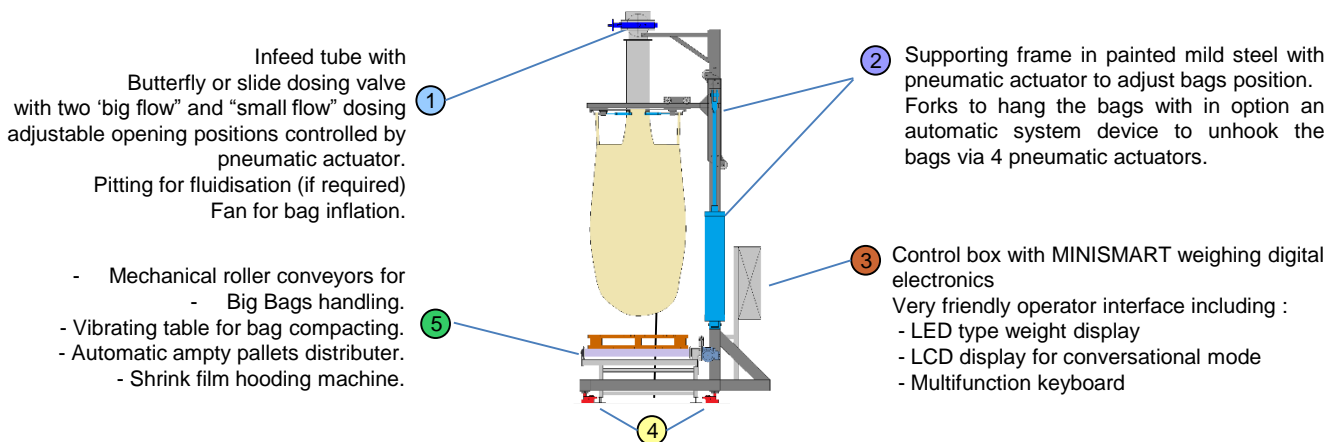
Usually Sautelma Rotolok supply "turn key" installations.



COMPOSITION AND CHARACTERISTICS

Sautelma's DBB 1000 weighing and bagging machine consists of four main parts :

- One big flow/small flow' extraction and feeding device, mainly a 3 position pneumatic slide or butterfly valve
- One big bags supporting and handling frame
- One weighing device including 4 strain gauge load cells and one digital signal processing unit.
- One control command cubicle including the weighing controller and the programmable PLC)



Weighing system made of 4 strain gauge load cells, IP 67, Stainless Steel, commercial accuracy, 3000 divisions, OIML approved. Digital processing of weight signal.

TECHNICAL SPECIFICATION

Weighing range	500 to 2000 Kg
Speed	20 big bags / hour
Average accuracy	+/- 0,1 to 0,2 %
Memorisation of	60 different products
Power supply	220/380V/single /50Hz (400VA)
Pneumatic supply	6 bars (10 Nm3/H)
Dust removal	800 m ³ /H

ADVANTAGES

- Modular design,
- High accuracy weighing system,
- Digital processing of weight signal with automatic zeroing
- Friendly and ergonomic operator interface
- The MINISMART controlling stem with or without programmable PLC can be adjusted to the customer's requirements according to the line complexity and degree of automation
- Commissioning is fast and easy due to maximum automation of the sequences

CONTROL SYSTEM



Electronic control

- Sautelma-Rotolok MINISMART digital electronic
 - Modular design, IP 65 protection
 - 16 bits microprocessor
 - Weight signal processing and digital purification.
- Data display and operator interface including:
 - One Weight Large visual display of LED type
 - One LCD display (20 characters and 4 lines) for the conversational mode
 - One multifunction keyboard
- Programs
 - Memorisation of 60 different products with their parameters
 - Automatic zeroing and calibration
 - Permanent check of mean
 - Automatic correction of trend
 - Production statistics processing
 - Access to programming by 'password'

- Control command cabinet with:
 - Programmable PLC
 - Weighing indicator approved in Class III for commercial weighing
 - Protection and power of the various parts
 - Connecting terminal

- Communication

The MINISMART can communicate with its environment through:

 - Traditional communication interface with analogue 4.20 mA signals and logical ON/OFF signals,
 - RS 485 serial connections, and J-BUS/MODBUS communication protocol
 - In networks of the PROFIBUS, DEVICE NET or CONTROLNET,
 - ETHERNET network

Options available on DBB 1000 dosing system

- Teflon coating of parts in contact with product
- Fluidisation of the extraction compartment and dosing
- Printer to issue production statistics
- Vibrating feeder for granular and fragile products
- Automatic hanging device of big bags
- Automatic unhook of big bags by 4 pneumatic actuators

Integrated solutions

- Mechanical roller conveyors for Big Bags handling
- Vibrating table to stack product in big bags
- Automatic distributor of empty pallets
- Automatic shrink film hooding system
- Swivel large size display unit, IP55 or IP65 for weight display
- Dedusting station

