

## **BIG BAG**

Unloading station with blender



## APPLICATION

The table blender system for solids feeding enables the addition of solids in a circulating liquid medium, from the solid product storage phase.

The Big Bag unloading stations enables the ergonomic handling and dosing of solid food products with similar grain sizes, such as sugar, powdered milk and salt, stored in BigBags of approximately one tonne in weight.

This solids feeding system + table blender was developed for use in the dairy sector in particular, or in industries such as beverage production, where sugar solutions are required to produce syrups.

## **OPERATING PRINCIPLE**

The equipment is based on a structure that supports the weight of the Big Bag vertically, with a hopper for the raw material contained in the bag.

There is a lifting and transfer system based on a block and tackle for handling the Big Bag.

Various components are included to both facilitate the emptying of the hopper and transport the raw material to the table blender. These include rotary valves, butterfly valves, endless screws, vibrators and extractors, which are selected based on the product and use.

The venturi and pump aspiration creates negative pressure at the base of the hopper. When the hopper valve opens, the solids are drawn and easily dissolve as they pass through the pump casing.

It is recommended to use batch operations until all the solids are added and to continue recirculating for a while once all the solids have been added to ensure the most uniform solution possible.

In-line operations can also be used for some cases, depending on the solid added and the quality of the solution required.

## DESIGN AND FEATURES

Hoist: 2000 kg

Structure: 1650 x 1350 x 5235 mm (width x depth x height) with crosspieces intersected with the lateral pieces and the rear part of the structure.

Structure profiles based on calculations. Profiles 120 x 120 x 4 and 100 x 100 x 3 inox 304, girder made from galvanised cast iron.

Hopper material 304 and 316.

Anti-caking system and safety guards: protection elements made from aluminium.

Solenoid valve for the seal cooling circuit.

Frequency inverter for the centrifugal pump.

Double mechanical seal.

Complete mixing with product recirculation using a tank.

Automatic butterfly valve for hopper.

In-line mixer for each model to break up possible lumps in the end product when required.

Centrifugal pump if required.

Stainless steel electric panel with control system.

## TECHNICAL SPECIFICATIONS

### Materials:

Parts in contact with the product AISI 316
Other stainles steel parts AISI 304
Guards Aluminium

Seals in contact with the product TR08 FDA cellular silicone / EPDM

Surface finish:

Internal 2B with removed and polished welds, Ra ≤ 0.8 µm

External 2B with brushed welds

Operating thresholds:

Capacity Bags of 1000 and 1500 kg

Working pressure Atmospheric Working temperature up to 65°

It is recommended to install the unloading stations in an area with controlled humidity and without flushing.

## TECHNICAL SPECIFICATIONS

Туре	Centrifugal pump		In-line mixer		Flow rate	Solids intake* (kg/h)				Uannan
	Model	Power (kW)	Model	Power (kW)	(m3/h)	Sugar up to 25°brix	Sugar up to 50ºbrix	Powdered milk 20%	Tickeners up to 400 cP	- Hopper volume (I)
MM-2	HCP 50-190	7,5	-	-	40	-	-	3300	-	- 45
MM-2M			ME-4110	7,5		3700	2400	-	650	

MM-2: blender model

MM-2M: blender model + mixer

	M	Die boe			
Туре	Sugar up to 65ºbrix	Powdered milk 20%	Tickeners up to 400 cP	Big bag capacity	
BF / BE	4000 kg/h	3500 kg/h	1000 kg/h	2000 kg	

BF: big bag station with fixed base for unloading using an endless screw

BE: big bag station with extraction for direct unloading

\*The applications mentioned in the technical data sheet are standard applications, but the equipment is adaptable for use with other applications based on customer needs. Please consult the technical office regarding other applications or models.

## OPTIONS

Load cells for transportation by deduction.

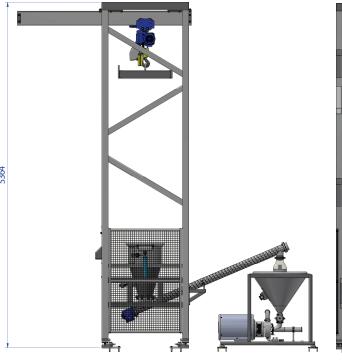
°Brix meter.

MVE100 electric vibrator for the blender hopper.

A regulating diaphragm valve for the venturi.

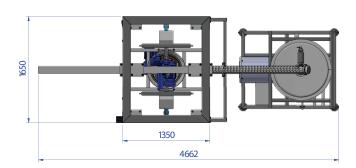
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## Dimensions of BigBag station with fixed base: BFMM-2

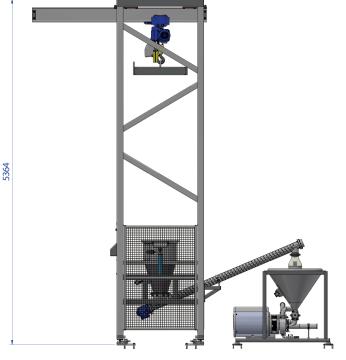


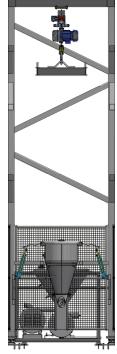


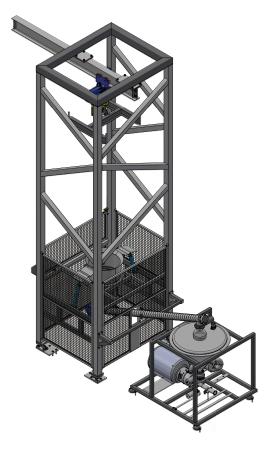


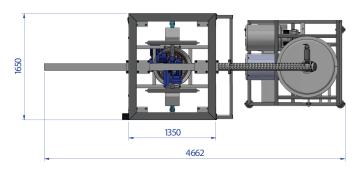


## Dimensions of BigBag station with fixed base: BFMM-2M



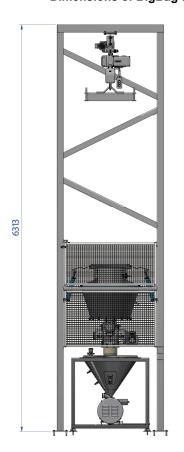


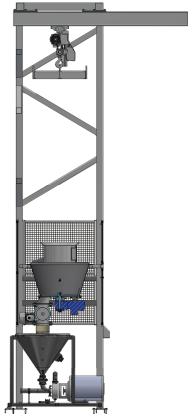




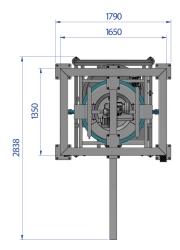
## GENERAL DIMENSIONS

## Dimensions of BigBag station with extraction: BEMM-2









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## GENERAL DIMENSIONS

## Dimensions of BigBag station with extraction: BEMM-2M

