

Big Bag Discharge Station

Dust control model



Docking system

BBD dust control model with docking system

Rate: 10 to 20 big bags/hr.

Weight capacity: 2 tons/big bag

Objectives: total dust control & flexibility of handling big bags

This FIBC unloader ensures the total containment during the big bag discharging step and maintains the big bag spout tension to permit easy flow while providing an ergonomical working station for the operator. Three versions are available: electric hoist, forklift loading or low structure.

TECHNICAL SPECIFICATIONS

Flow rate: 10 to 20 big bags/hr.

Weight capacity: 2 tons

Structural framework manufacturing: mild steel, 304L stainless steel, 316L stainless steel

316L stainless steel

Manufacturing of parts in contact with the product: steel, 304L stainless steel, 316L stainless steel

Required rate for dust extraction: 150 m³/hr.*

*may vary according to the material

Ergonomical access to the big bag: 1 600 - 1200 mm

OPERATING SEQUENCE

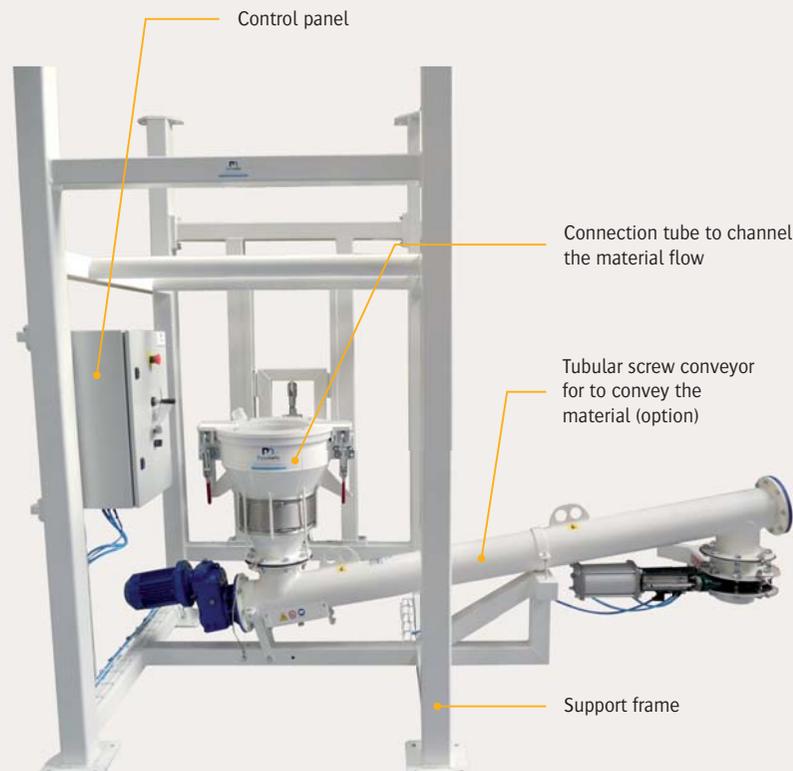
IMPLEMENTATION

1. Height adjustment of the connecting tube
2. Positioning the big bag spout into the double envelope tube
3. Set the big bag spout
4. Open the big bag unloading spout
5. 100% of containment of the material flow

Equipment

TEST CENTER

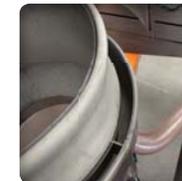
Available



➤ **Total dust containment with tensioning and docking cylinder:** it provides a dust-tight seal with the discharge spout of the big bag and eliminates the potential for contaminants to enter the process. The pneumatic cylinder enables the operator to adjust the connection height to fit different big bag sizes



➤ **Double envelope tube:** it ensures volumes balancing and thus avoids any pressure increase and/or flow problem



➤ **2 possible configurations for connecting the big bag spout:**
 1. The inflatable seal is fitted on the double envelope tube with a reorientation ring
 2. The "pinch" ring is activated manually or by pneumatic cylinders



➤ **Putting big bag under vacuum (optional):** at the end of emptying process, the operator can put the big bag under vacuum using dust collector to avoid dust emanation into production facilities

Advantages



Possible loading methods:



Electric hoist



Forklift



Low structure

Options

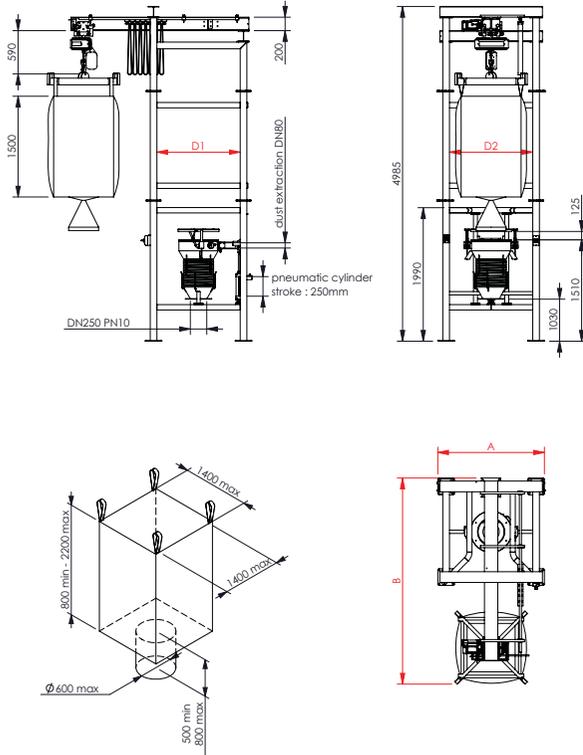
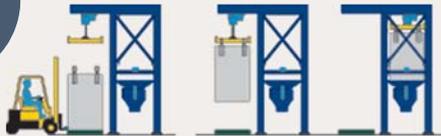
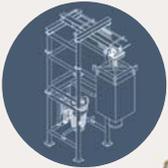


Extractor fan



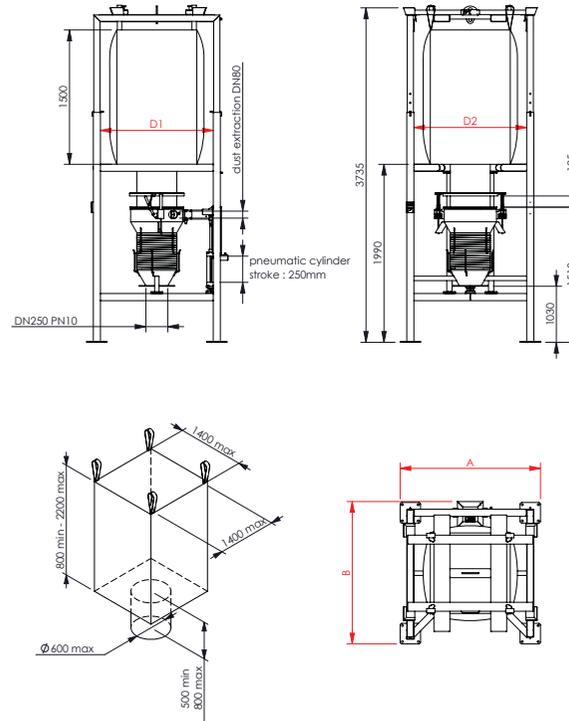
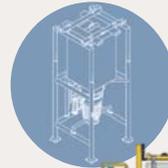
Control valve

Electric Hoist Loading



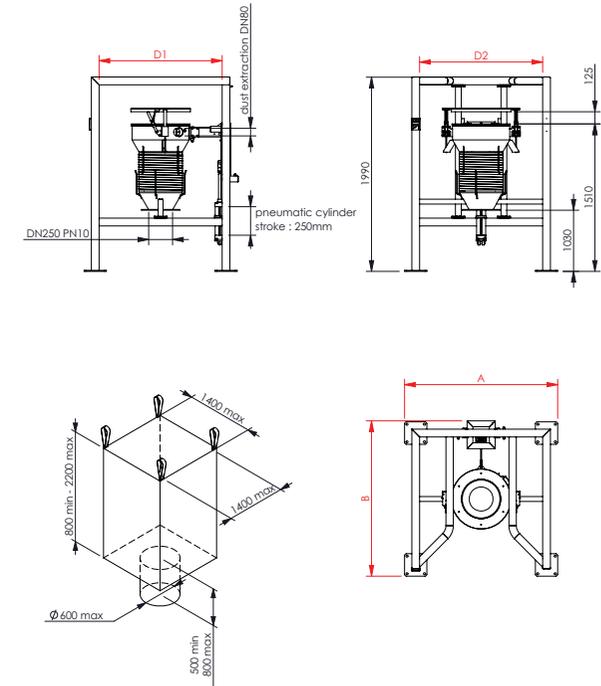
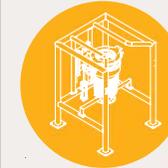
Ref	max big bag height	max big bag width	D1	D2	A	B
VBB125P	2200	1150	1250	1250	1600	3100
VBB150P	2200	1400	1500	1500	1890	3350

Forklift Loading



Ref	max big bag height	max big bag width	D1	D2	A	B
VBB125P	2200	1150	1250	1250	1580	1590
VBB150P	2200	1400	1500	1500	1830	1840

Low Structure



Ref	max big bag height	max big bag width	D1	D2	A	B
VBB125P	2200	1150	1250	1250	1580	1590
VBB150P	2200	1400	1500	1500	1830	1840

Big Bag Discharge Station

Dust control model



Dust control model

Glove box

FIBC dust control model with glove box

Rate: 10 to 20 big bags/hr.

Weight capacity: 2 tons/big bag

Objectives: total containment & safety for operators

Big bag discharge station model integrates a glove box which prevents the operator from being in contact with the material, while maintaining a good visibility. Three versions are available: electric hoist, forklift loading or low structure.

TECHNICAL SPECIFICATIONS

Flow rate: 10 to 20 big bags/hr.

Structural framework manufacturing: mild steel, 304L stainless steel, 316L stainless steel

Finishes: RAL 9006, microblasted, electropolishing

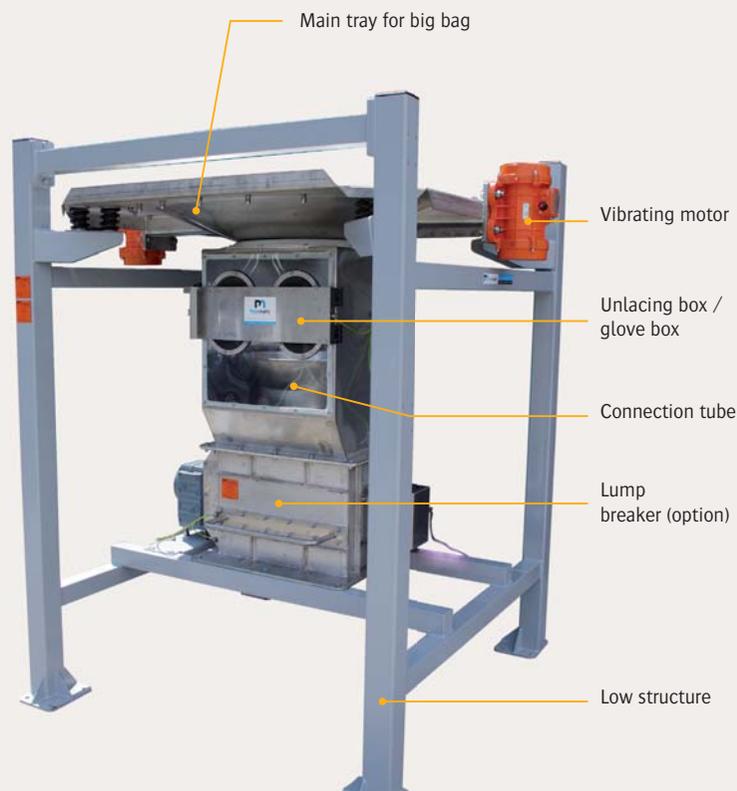
Installed power: 0.1 kW (according to the option)

Operation pressure: 6 bars

Dust collecting flow rate required: 300 m³/hr.*

*may vary according to the material

Ergonomic height for access to the big bag: 1.550 mm.



▶ **Containment and operator protection:** the glove box with a dust-proof door provides a secure and ergonomic access to the big bag spout. The respect of the sight height allows the operator to manipulate big bag without being in contact with potential toxic materials



▶ **Flow control (optional):** the PALAMATIC PROCESS control valve enables the operator to stop very flowing materials or to control the flow. This pneumatic valve strangles the big bag spout. It is actuated by pneumatic cylinders



▶ **Improvement of bulk material flow (optional):** the bulk material flow is optimized thanks to a pneumatic massager system. Pneumatic cylinders are implanted on the lower part of the structure, crush severely agglomerated lump into smaller chunks (2, 4 or 6 actuators depending on the type of powder)



▶ **Connection to the dedusting unit (optional):** the dedusting ring is mounted on the receiver plate and minimizes dust emissions. It is composed by a split tube and a pipe for connection to the dedusting unit. It is manually operated to adjust or close off the suction flow

Advantages



Possible loading methods:



Electric hoist



Forklift



Low structure

Options



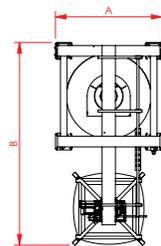
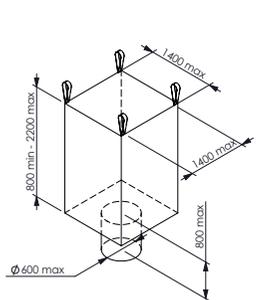
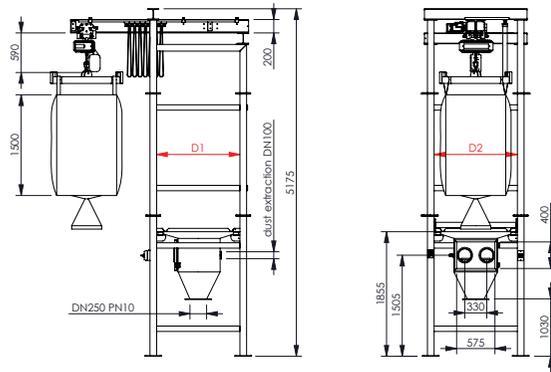
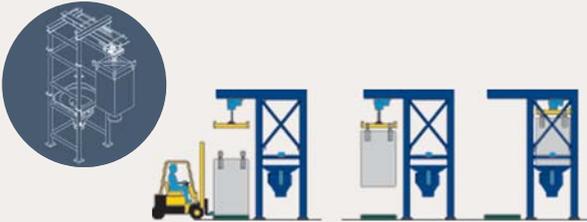
Big bag compactor



Lump breaker

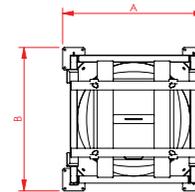
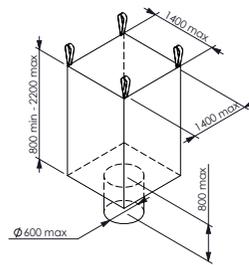
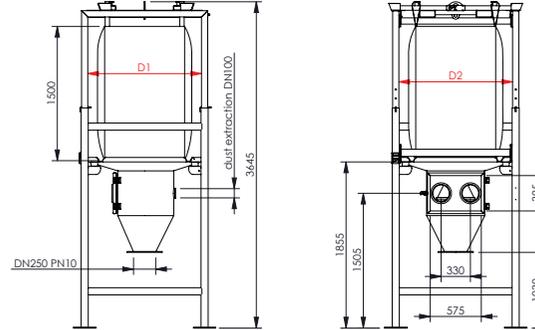
See all our options on page 24

Hoist Loading



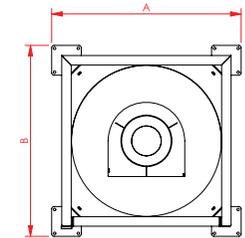
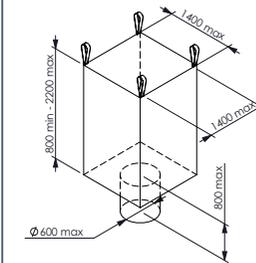
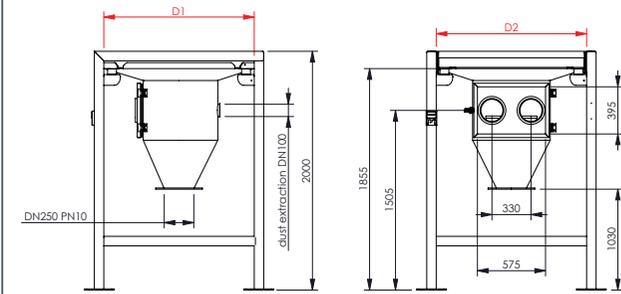
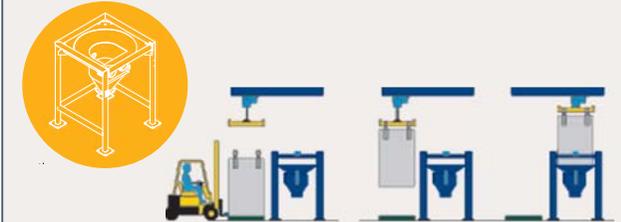
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Forklift Loading



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VBB125P	2200	1150	1280	1280	1600	1600
VBB150P	2200	1400	1500	1500	1850	1850

Low structure



Ref	max big bag height	max big bag width	D1	D2	A	B
VBB125P	2200	1150	1280	1280	1600	1600
VBB150P	2200	1400	1500	1500	1850	1850