BATES CARGO-PAK®
A SIGNODE BRAND

PRODUCTS
SERVICES
INTEGRATION
AUTOMATION

pack bundle unitize warehouse transport

Bates Medium

Paper dunnage bag

Prevent cargo damage

With 40 years experience we know how to protect your goods in trucks, containers, ships and rail wagons.

Reliable performance

Made from two layers of quality paper from FSC certified suppliers & an inner PE film bladder, ensuring an ultimate airtight seal. Made in Denmark.

Time & cost saving

Quick and safe installation. Clean and cost effective. Fast loading for shipper. Fast unloading for receiver. Airbags can be reused numerous times.

Fast & simple inflation

Operator friendly inflation using compressed air. Unique reusable valve which allows quick inflation and deflation of the airbag.

SIGNODE

BATES MEDIUM
Paper dunnage bag

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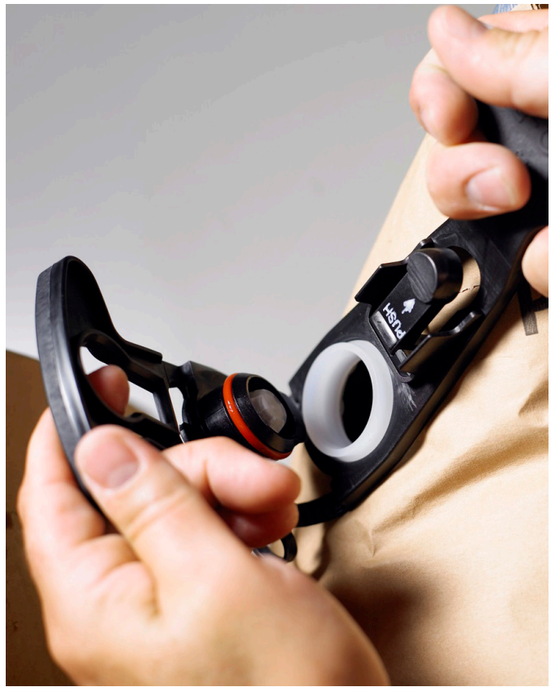
Medium is used to secure cargo which is to be transported by sea, container, rail or road and is at risk of being exposed to loads up to 23 tons. Medium is equipped with a patented reusable valve which allows for very quick inflation and quick deflation. Medium airbags can be used numerous times and have no loose parts. Medium is available in five sizes, comes in handy box quantities and are easy to store.

Medium airbag inflated in position

Reusable valve system



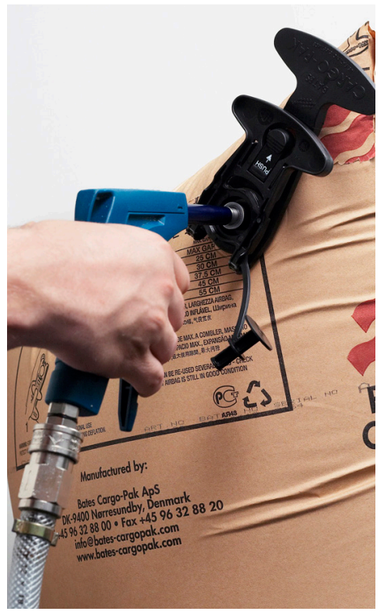
Large opening for quick deflation

Inflation Time		
Size in cm	**60x110**	**100x220**
Standard Inflation	11 sec	46 sec
Quick Inflation	8 sec	35 sec
Deflation	11 sec	43 sec

Inflation
We recommend that the Bates Quick or Standard Inflator is used to inflate the airbags. After inflation push the stopper fully into the valve to seal.
The airbag must not come into contact with sharp or pointed objects and should be kept min. 5cm clear of the floor to avoid contact with water or other liquids. The table shows filling time based on a 3/4" hose and a pressure of 4 bar (56 psi).

Deflation
The airbag is deflated by pushing down the push-button which opens the valve and releases the air. The airbag can then be removed from the load, rolled up ready to be reused. It is very important to close the valve after deflating, so the valve is protected against damages and dirt.

Medium reusable valve



Inflation with Standard Inflator

Inflation with Quick inflator

Packaging Specifications					
Size in cm	**60x110**	**85x185**	**100x120**	**100x185**	**100x220**
Item Number	711120	711060	711181	711170	711190
Pcs per Carton	30	15	20	15	15
Pcs per Pallet	240	120	160	120	120
Gross Weight per Carton	16.3	19.7	20.4	22.8	26.6
Gross Weight per Pallet	144	170	175	195	225

BATES MEDIUM
Paper dunnage bag

Working Pressure & Strength

Technical Specifications

Size in cm		60x110	85x120	100x120	100x185	100x220
Load in Tons in a Gap of:	10cm	6.0	16.0	12.0	19.5	23.5
	20cm	2.5	10.0	7.0	12.5	15.5
	45cm			1.0	2.5	3.0
Max Gap in cm		25	37	45	45	45

*All specifications are provided in metric tons

The maximum load depends on the size of the airbag and the gap between the cargo. The table above shows what load the various sizes of airbags can withstand in a gap from 10 to 45cm. For example, if there is a gap of 10cm and an airbag of the size 100 x 220cm is used, the airbag can withstand a load of 23.5 metric tons.

Working pressure

The maximum recommended working pressure is 0,3 bar (4,3 psi). Compared with the high bursting pressure this gives a security margin of factor 3-8 depending on the gap. If changes in temperature, you should take into consideration the following:

- If the air in the airbag becomes significantly colder after inflation, the pressure in the airbag drops. It is possible to compensate for this during inflation by increasing the working pressure slightly.
- If the air in the airbag becomes significantly warmer after inflation, the pressure in the airbag increases. It is possible to compensate for this during inflation by reducing the working pressure slightly.
- Consideration should also be given to the working pressure at different altitudes, from high to low and low to high.

During inflation consideration should of course be given to whether the cargo and packaging can withstand the selected working pressure.

Certified Manufacturing Plant

ISO 9001 Quality Management System

ISO 9001
BUREAU VERITAS
Certification

Distributor:

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