

BAGMASTER JR I

Filling big bags.

IBC's filling system for big bags is available in several basic versions with a wide range of accessories, to make it adaptable for all customer needs. All machine systems are designed with high quality and accessibility. IBC has extensive experience in handling bulk products and offers custom-tailored powder handling equipment. The Bagmaster systems are designed for a modern and ergonomic working environment.

JR I features an ergonomic system where the bag hooks are positioned within easy reach of the operator for rigging the bags. The big bag filler has a clamping cone for a dust-free and closed filling process, which promotes hygiene and environmental benefits. The operator platform is adjusted for each specific machine to an appropriate working height.

Thanks to its modular design, the big bag filler can be easily integrated into existing systems. This makes it easy to adapt the installation to the customer's existing premises. Weighing can be performed either with weighing containers (net weighing), or alternatively by weighing the bag (gross weighing).

For net weighing, the capacity is approx. 30 bags/h when the product is free flowing and not fluidized. For gross weighing, the capacity is approx. 20 bags/h.

The bag filler is available in standard steel, stainless steel, with ATEX classification, food grade, etc.

JR I BASIC is a flexible and highly adaptable machine. The model includes the following basic components.



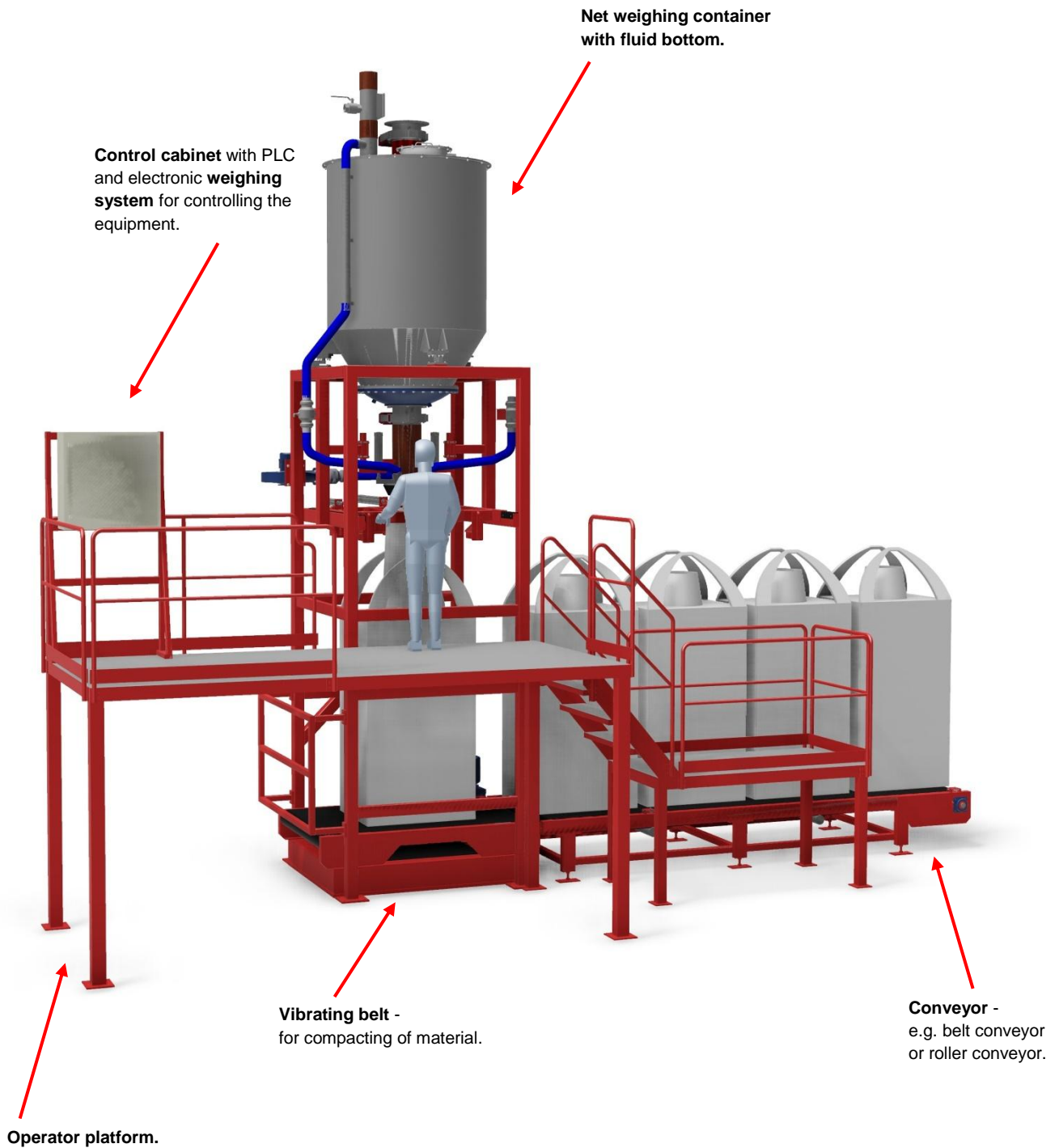
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JR I ADVANCED



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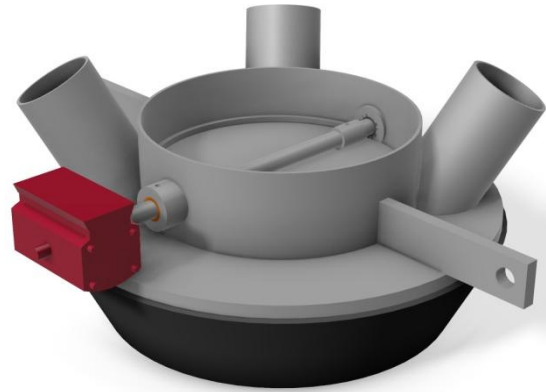
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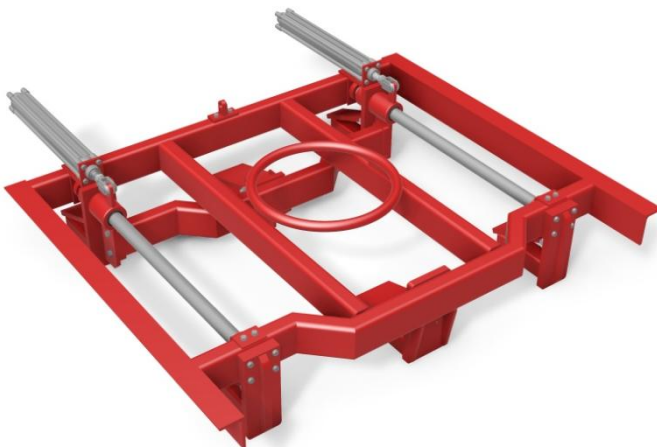
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Detailed view - Sealed filling system

JR I operation is hygienic and dust-free thanks to the sealed filling system. A double jacket clamping cone is lowered pneumatically to seal the bag inlet, which is pulled up around a ring in the yoke. In addition to a connection for inflating the bag, the clamping cone also has a dust extraction channel. The cone features a valve to prevent dust from the material to leak out when it is in the upper position.



Detailed view - Ergonomic bag suspension yoke



A good and ergonomically correct environment is achieved thanks to the bag yoke hooks that are moved pneumatically to the operator, and because the entire bag yoke is moved between the rigging and filling positions. Adapted for bags with 2 and 4 loops.

Examples of accessories for BAGMASTER JR I



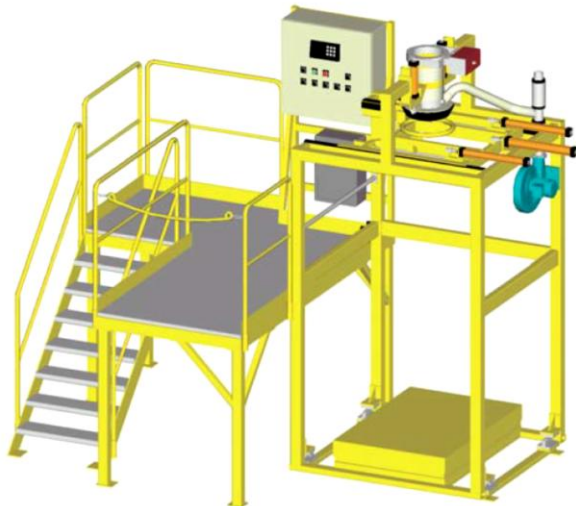
Filter system

Filters are used extensively wherever powders are handled. The choice of filter system depends on the application.



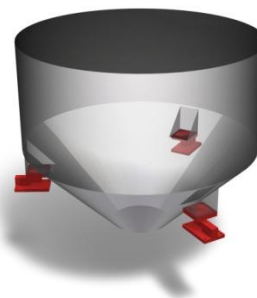
Dosage valve

Pneumatically controlled and available as sliding or butterfly valve for rough and fine dosing.



Gross weighing

Weighing system with four load cells. For gross weighing, the material is weighed when it enters the packaging.



Net weighing

Weighing system with three load cells. For net weighing, the weight of the material is determined in a weighing container before the filling station. One advantage of net weighing is that the capacity is higher than for gross weighing.

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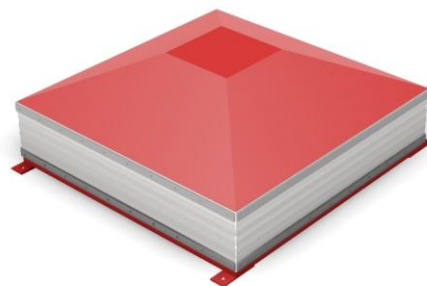
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Lifting table

Used to unhook the filled big bags. Placed at the bottom of the big bag filler. The lifting table is especially suitable for accumulation conveyors.



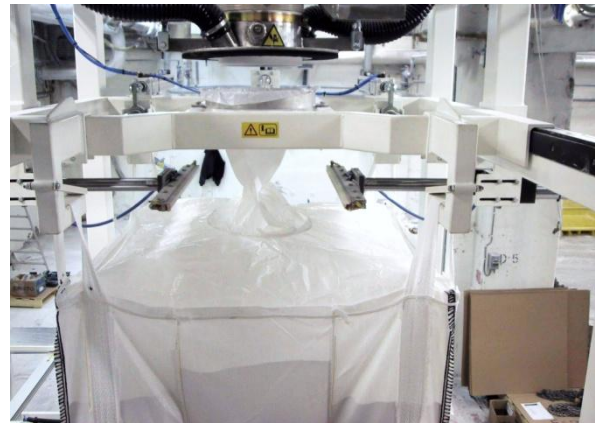
Conical vibrator table

When filling fluidizing and otherwise hard-to-fill materials, the machine is supplied with a high-efficiency vibrator table, which is placed in the lower part of the machine. The vibrator table compresses and compacts the material in the bag during the filling process to offer a more stable bag and an even top angle.



Automatic bag welder – welding in progress

After filling is complete, the bag is closed automatically through stretching of the inlet spout, or by the spout already being stretched in the rigging mode. Two welding electrodes weld the inlet together. Both electrodes are active, i.e. both are used for welding.



Automatic bag welder – finished result

The welding time is adjusted in accordance with the quality of the bag. The unit is controlled with one or two pneumatic cylinders mounted on solid linear guides. Welding always starts in the automatic cycle, but can be deselected on the operator panel if required.

Application images



JR I in production.



Close-up view of the clamping cone.

Examples of equipment that IBC offers for all filling systems

- Screw conveyor
- Vacuum conveyor
- Pressure conveyor
- Vibration feeder
- Rotary valve
- Level guard
- Metal detector
- Sampler
- Marking of big bags
- Buffer container

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