

BAGMASTER JR III

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 III is the big bag filler for bags with 2 and 4 loops. In general, the machine does not require any operator platform, a benefit to operator ergonomics. The bag suspension yoke is motorized and operates in the vertical direction. This allows the operator to suspend the bag at the preferred height.

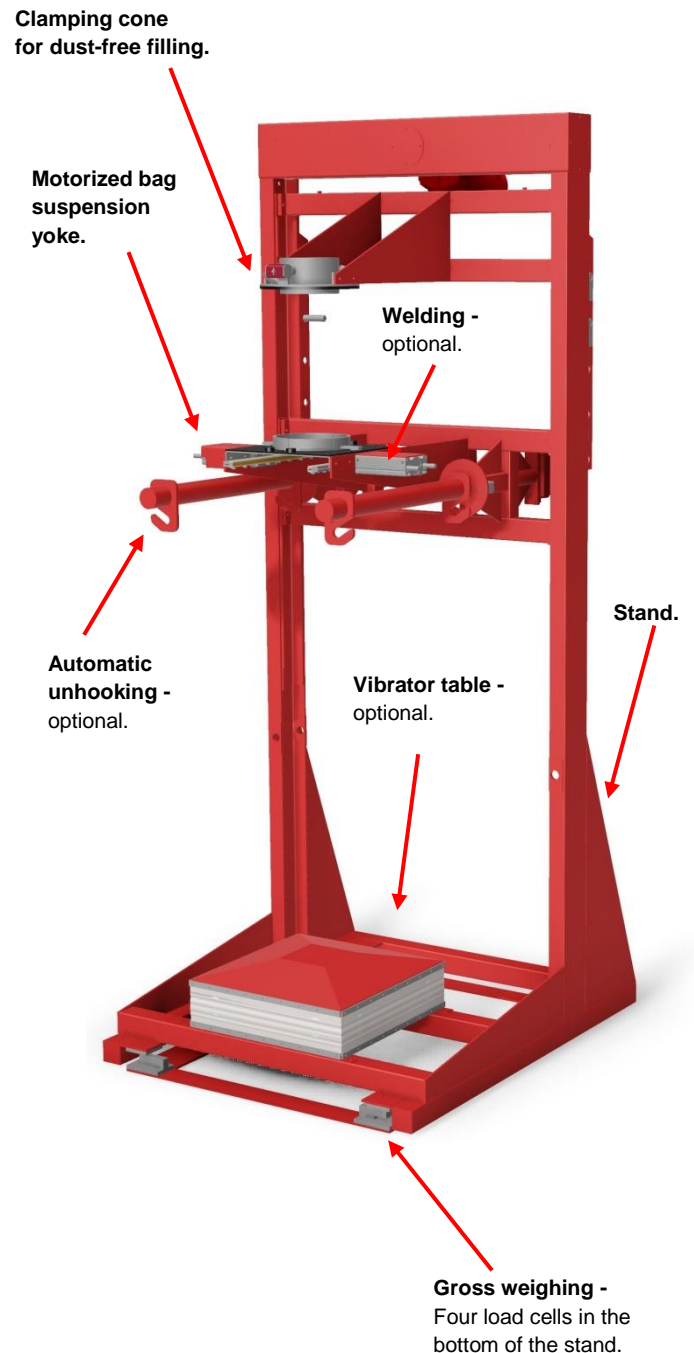
JR III features a sealed filling process and can be easily integrated into existing facilities. The machine can be fed directly from the process or from a silo/buffer container. The feeding operation can be performed with a screw, vibration feeder, rotary valve or valve.

The big bag filler is intended for gross weighing (but can also be supplied with net weighing) to offer a capacity that is dependent on the capacity of the feeder. The machine can handle 15-20 bags/h when the product is free flowing and not fluidized.

JR III is designed to be brilliantly simple. For practical purposes, this means that an operator platform and pre-container is not required. The operator works from floor level. The stand doubles as a fork lift stand, which has been combined with IBC's filling cone. The motorized bag suspension yoke docks the bag inlet with the cone, which results in a sealed filling without any need to connect the bag inlet.

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

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



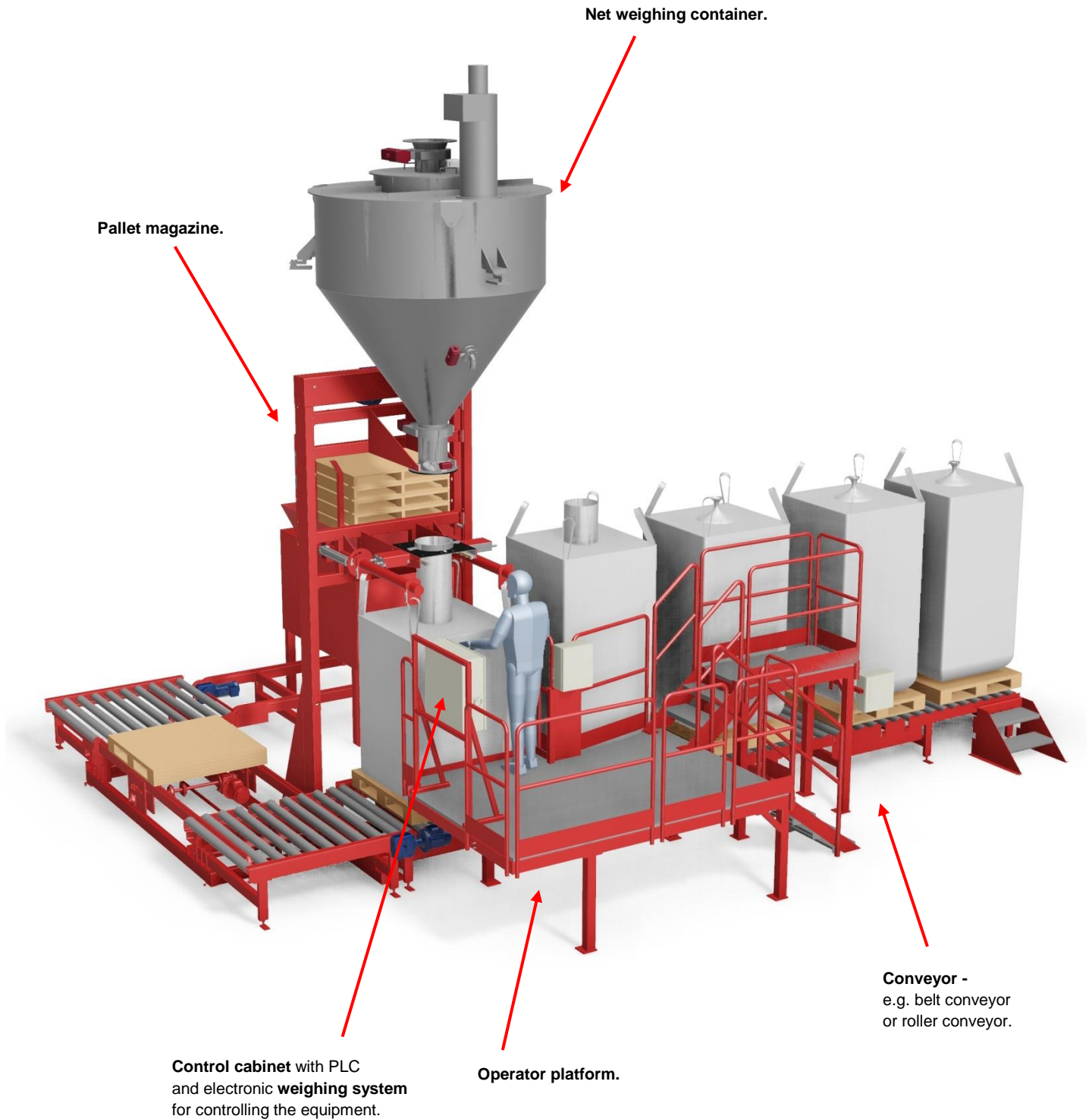
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JR III ADVANCED



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Detailed view - Sealed filling system

JR III operation is hygienic and dust-free thanks to the sealed filling system. The bag is suspended in the bag yoke and the inlet is raised up around the centre ring. A motor lifts the bag yoke and connects the bag inlet with the clamping cone. The clamping cone ensures dust-free filling of material. The clamp cone is equipped with an air channel for bag inflation and a dust evacuation channel.



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Examples of accessories for BAGMASTER JR III



Filter system

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



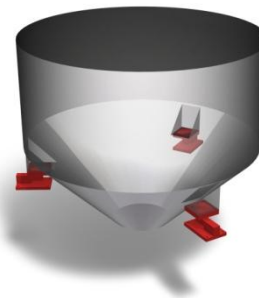
Dosage valve

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

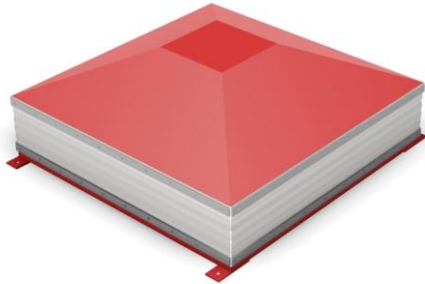
Weighing system with three load cells. For net weighing, the weight of the material is determined in a weighing container before the filling station. One advantage of net weighing is that the capacity is higher than for gross weighing.

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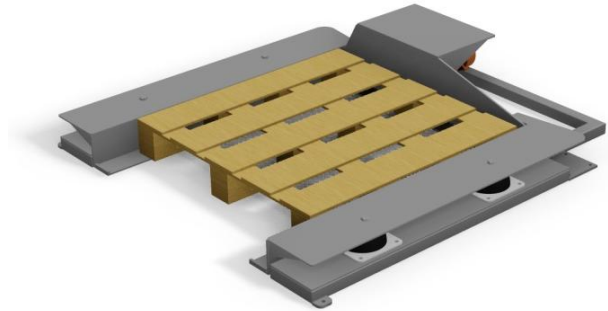
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Conical vibrator table

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.



Low-profile vibrator table

U-shaped with four mounting anchors in the floor. Adapted to the pallet size. The table is mounted at the lower part of the machine and the operator places the pallet in the low-profile vibrator table. Equipped with twin vibrators for directional material movement. The pallet can be set off and picked up with a pallet truck.



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.

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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