

BAGMASTER SENIOR

Big bag filler for high capacities.

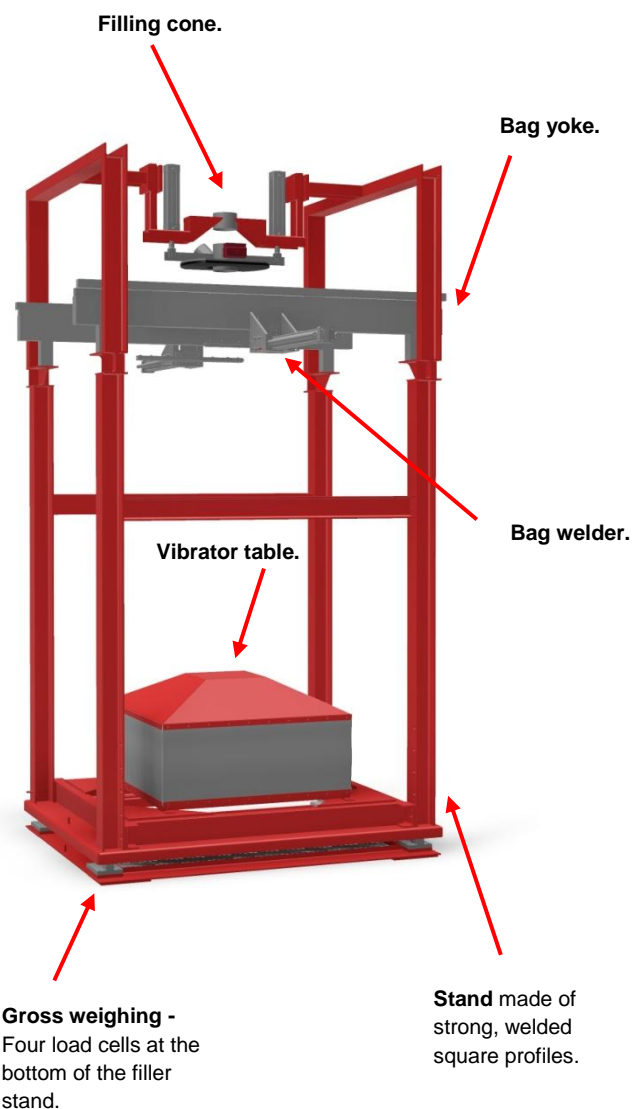
IBC's filling system for big bags is available in several basic versions with a wide range of accessories, to make it adaptable for all customer needs. All machine systems are designed with high quality and accessibility. IBC has extensive experience in handling bulk products and offers custom-tailored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

The SENIOR big bag filler is a high-capacity filler for bags with 2 and 4 loops. The machine is designed for filling a big bag with fluidizing and fine-particle products, e.g. cement, talcum, ash or floating putty. Theoretical capacity of up to 60 big bags/h. SENIOR is intended for net or gross weighing. The bag suspension yokes are mounted in cassettes, each with space for ten bag yokes that are fed onto a motor powered yoke conveyor where the yokes pass the rigging, filling and accumulation positions up to the unloading station. The machine can be fed directly from the process or from a silo/weighing container. The feeding operation can be performed with a screw, vibration feeder, rotary valve or valve.

The filler requires an operator platform that runs along the machine and offers excellent operator ergonomics. The work environment is good, since the operator only works at one rigging station and does not come near the material filling location. Bag filling takes place in a sealed, dust-free system. The filled bag can be retrieved by a fork lift directly in the filler where it is suspended on a yoke.

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

SENIOR - a semi-automatic big bag filler.
Detailed view of the filling station.



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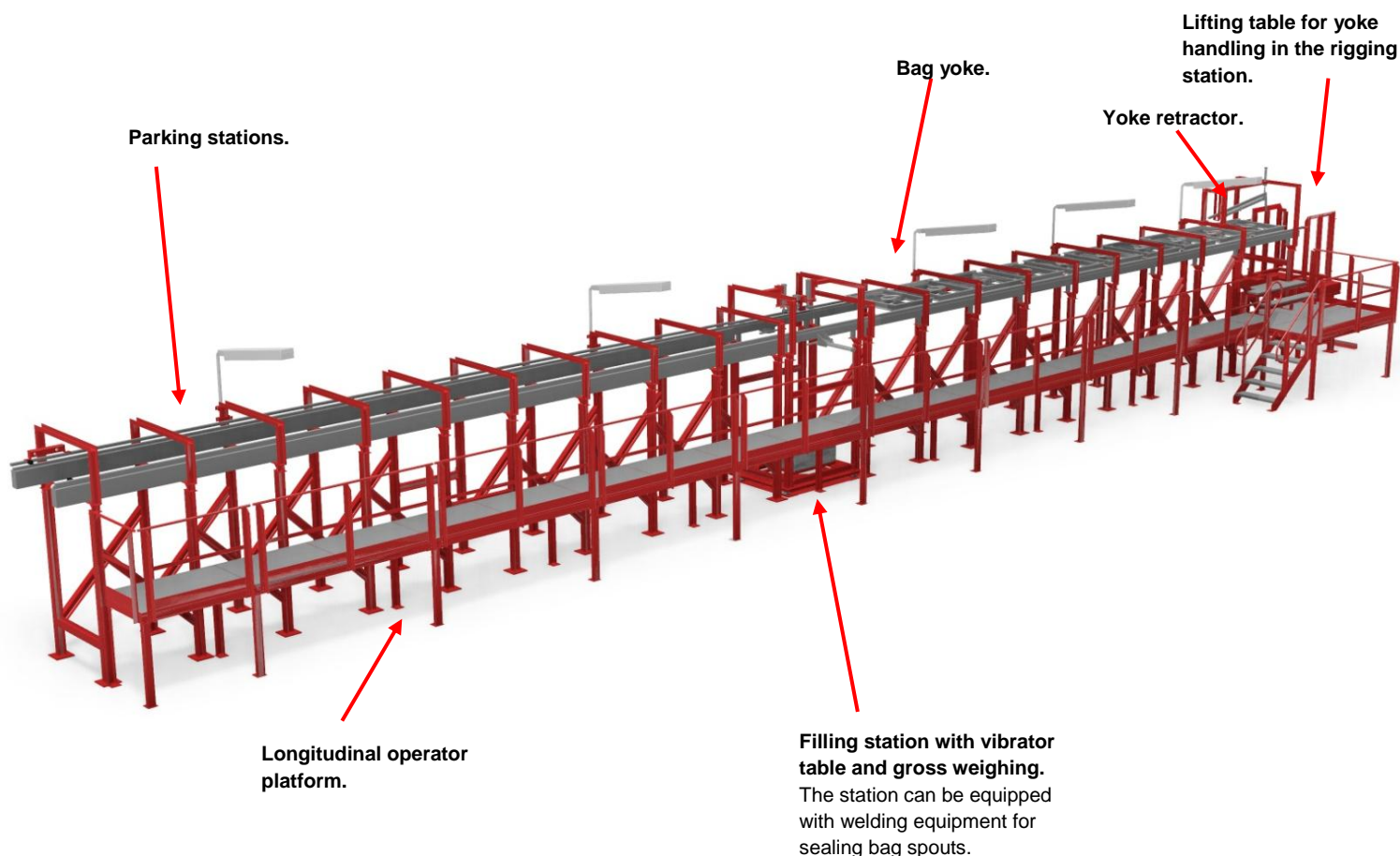
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A complete SENIOR facility.

The big bag filling line consists of a motorized yoke conveyor for automatic transport of bag suspension yokes.

The yokes pass the rigging, inflation, filling, venting, and accumulation positions up to the unloading station, where the bag yokes with suspended bags are picked up by fork lift. The work environment is good, since the operator only works at one rigging station and does not come near the material filling location. The filling process takes place in a sealed system.

The electronic scale system of SENIOR is connected to the PLC system that controls the work cycle. The PLC system is located in a control cabinet from where the electrics and the electronic scale system are also controlled. Pneumatic valves are mounted in a separate cabinet.



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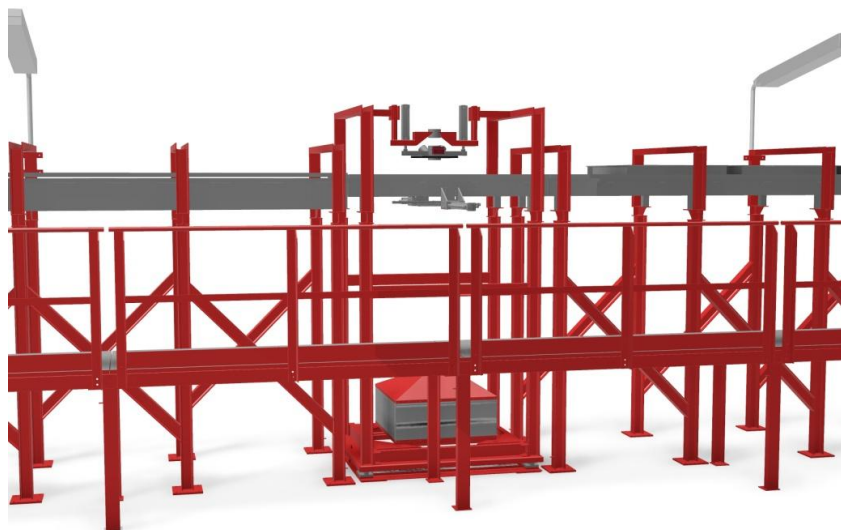
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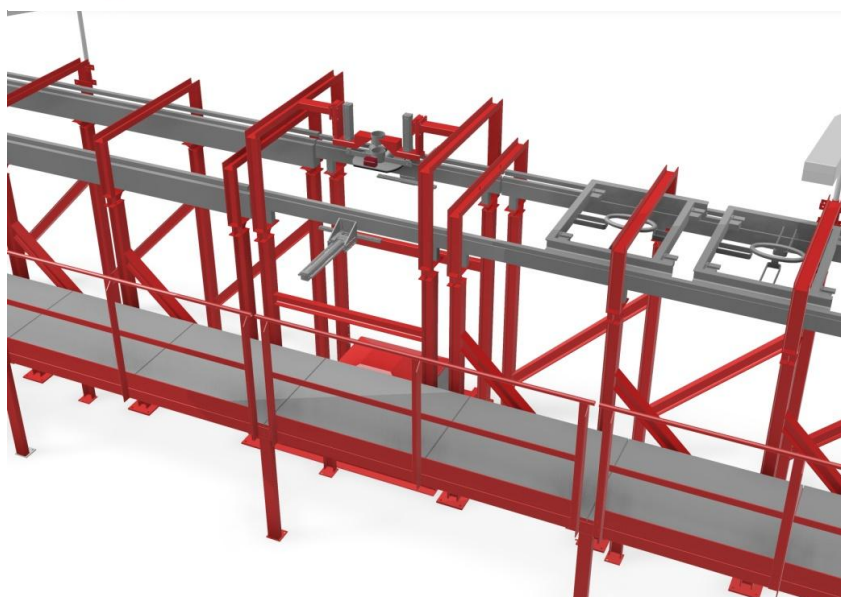
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Rev. 1

BAGMASTER SENIOR



SENIOR operation is hygienic and dust-free thanks to the sealed filling system. The empty bags are suspended in the bag yokes and the inlets are raised around the ring in the centre. Pneumatic cylinders lower and raise the clamping cone against the ring in the yoke. The clamping cone ensures dust-free filling of material. The clamping cone is equipped with an air channel for bag inflation and a dust evacuation channel. In addition, it is equipped with a valve which prevents dust build-up when the clamping cone is in the upper position.



The filled bag suspended in the bag yoke can be retrieved directly from the filler with a fork lift. Empty bag yokes are collected in a yoke cassette, which is situated at the beginning of the line for automatic input of empty bag yokes via the yoke retractor.

Alternatively, you may choose to equip the bag filler with different types of transport systems for filled bags. The belt conveyor is one option as is a roller conveyor whenever pallet handling is required downstream in the transport chain. For pallet handling, if required, the machine can be fitted with a pallet magazine. These different types of transport systems for standing bags should be mounted at the end of the suspension track.



Detailed view - yoke retractor

The yoke retractor is located in the rigging station. When the yokes leave the yoke cassette, the yoke retractor takes hold of the bag yoke so that it is positioned correctly in the runner system leading to the filling station.

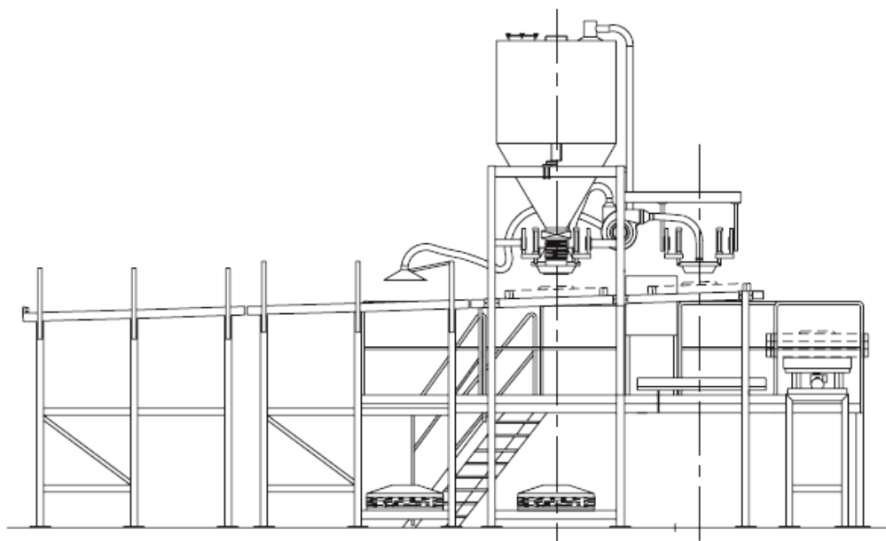
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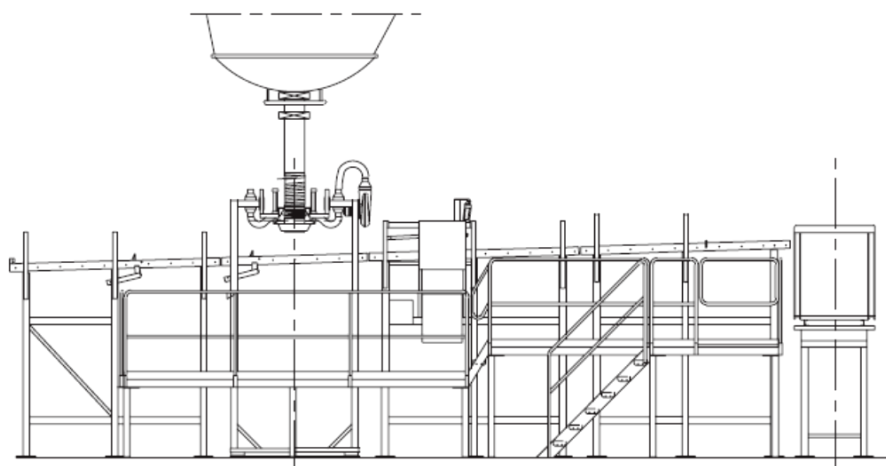
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Example of net weighing.

Net weighing container, double vibrator tables, pre-rigging station and four parking stations.

Filled bags can be collected using a fork lift at the short side.



Example of gross weighing.

The machine is fed from a large silo, which is equipped with a fluidizing bottom. This application has four pre-rigging positions and two parking stations.

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Examples of accessories for BAGMASTER SENIOR



Filter system

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



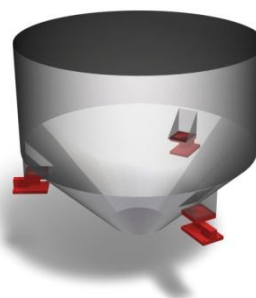
Dosage valve

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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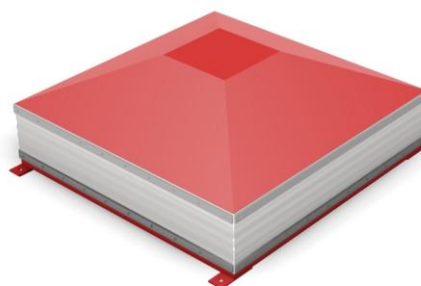
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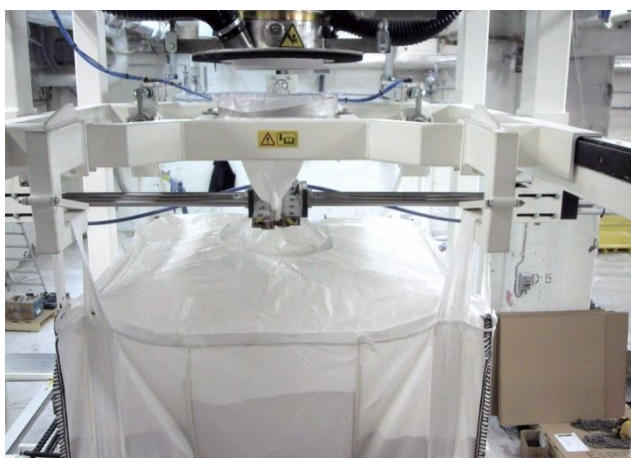
Lifting table

Used for yoke handling in the rigging station. Can also be placed in the parking station.



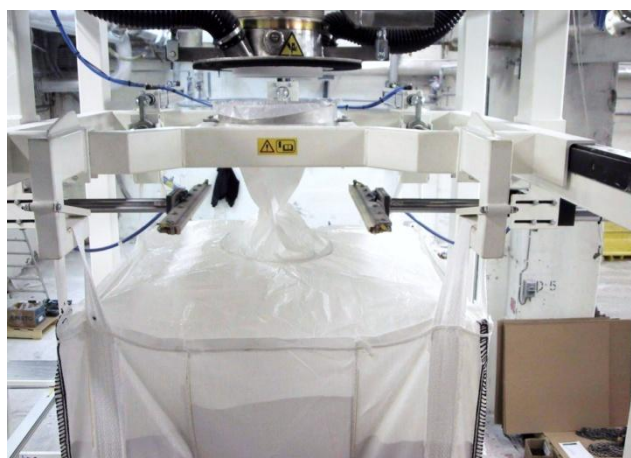
Conical vibrator table

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.

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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