

We fill them up - fully automatically

Filling big bags without operator intervention



EMDE Solutions for your industry

The fully automatic EMDE Big Bag filling system supports the system operator in the automation of its manufacturing process and enables a continuous monitoring of the system at the management level. Unnecessary breaks and downtimes are a thing of the past and thus enable a saving of resources.

The system is ideally suited for filling powdery, poorly flowing and dusty products as well as, of course, for easily flowing granulates and grains. The range of applications extends across all industries. Large quantities to be filled in the building materials industry or a 24/7 process in the food industry present no problem for EMDE's fully automatic filling system. The system is based on the tried and tested semi-automatic filling systems from EMDE, supplemented by a robotic gripping unit for recognizing and picking up the empty big bags, automatic docking

with the filling station and an automatic clipping system for closing the big bags after filling.

A powerful camera system detects the position and orientation of the empty big bag within milliseconds and ensures a targeted positioning of the gripping system on the big bag so it can be safely picked up. Various sensors suitable for industry recognize and monitor the position of the big bag on the gripping system and take care of faults to ensure the process-safe discharge of a „faulty big bag“.

For filling, the big bag then hangs on four modified load hooks which have been used in the EMDE standard big bag filling systems for years. The remaining process steps are analogous to manual big bag filling.



Technical data

- Big bag weight up to 1,500 kg
- Up to 40 big bags/h with one filling system
- Easy capacity expansion through a second filling system
- Weighing accuracy +/- 1kg 1,000 kg big bag weight
- Handling of 4-loop big bags
- Inflation & hanging filling of the big bags for the complete spreading of the bottom and to achieve stability

Product features

- Dust-free docking & filling of the big bags
- Fully automatic mode of operation without operator intervention
- Calibrated filling of big bags
- Combinable with other peripherals such as labelling, stretching etc.
- Equipped with weighing container to increase the system performance
- Recipe & setpoint specification from the control system
- Closure of the big bag by means of clip - comparability to a seal of quality
- Reliable automatic operation even in harsh industrial environments



Hanging the big bag in the filling station



Paper sheet dispenser

USP - UNIQUE SELLING PROPOSITION

EMDE Solutions for your industry

- Hanging & standing filling as well as weighing of 4-loop big bags
- Vibration of the big bag during the filling process
- Equipping two filling stations with one robot
- Filling system for powdery, poorly flowing bulk goods
- Dust-free filling of health-critical products
- Use of big bags with and without liners
- Integration of the system into the MES system (system-monitored process)
- Batch traceability for every big bag

EMDE Group

We offer you an extensive program for mechanical conveying of bulk materials. All components are designed by our experienced sales staff in terms of process engineering and are offered specially tailored to the application. The coordination of the components and processes connected in series is an important prerequisite for the function of the overall system.

We offer you this complete solution from one source!

The quality of the conveyor systems and the reliability of the overall system is ensured by the in-house production of all components.

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