Progress and Quality for the 21st Century

HAVER ROTO-PACKER with the air type filling system

1. Infeed cone feeder
2. Rotary drive unit – speed adjustable
3. Air and power connection
4. Blower air connection
5. Electronic weigher/control panel
6. Pressure chamber with cone valve
7. Filling box with aeriation pads
8. Gate valve for full and fine flow
9. Bag holder with bag control
10. Spillage return/dedusting
11. Bin level control
12. Cleaning cover
13. Operator terminal

The HAVER ROTO-PACKER series RL designates a rotating valve type bag filling machine (with 3, 4, 6, 8, 10 or 12 spouts) according to the air type filling system. The area of application includes powder type, fine or coarse grain, flow resistant products or mixtures with fine and coarse components, granulates, crystals or goods of similar particles.

The average operational output for paper and plastic bags with interior valves is between 900 bags/hr. with 3 filling spouts and 4,000 bags/hr. with 12 filling spouts.

By combining the ROTO-PACKER with the HAVER RADIMAT automatic bag applicators (bundle or reel system) fully automatic operation is possible.

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HAVER ROTO-PACKER with vertical impeller filling system

Through their continuous development the HAVER vertical impeller filling system RS could be optimally designed to fulfill the special requirements of filling free-flowing bulk materials - especially for building materials of every type.

The results:
- optimum filling efficiency for small bag dimensions with minimum aeration
- reduced wear and tear
- high operational safety levels
- quick and easy access to exposed parts, such as the turbine impeller
- filling pressures that are optimally transmitted via specially designed filling channels
- pneumatically operated slide valve for coarse and fine flow and shut-off of filling
- soft-start drive system using V-belts

HAVER filling systems

HAVER vertical filling impellers (photos 1 and 2) are characterized by:
- high compaction levels through minimized air entry
- speed variability, belt drive system
- air feed control depending on the filling speed
- ring gap aeration to minimize wall friction between the filling tube and product
- minimal air consumption
- impeller drive unit is outside the area of contamination
- easy accessibility for maintenance and cleaning
- compact bags
- minimal spillage
HAVER ROTO-PACKER details

Advantages:

- high weight accuracy by exact material flow dosing
- 3-position cylinder for full and fine flow
- manual or motorized adjustment of fine flow opening
- extremely low product adhesion
- optimum interaction between weighing parts and stationary parts
- air tight closing of filling channel
- tried and proven system, even under extreme conditions

HAVER filling shut-off valve - as slide gate valve is always functional and reliable over the long term.

HAVER ROTO-PACKER product feeding systems

Material feeding with vertical double rotary feeder - for large volume storage silos

Vertical double rotary feeder for consistent volumetric dosing of powder type free-flowing materials

The cone valve may be used as an alternative to the rotary feeder when loads from product in the initial silo are not excessive.

The cone valve is positioned in the ROTO-PACKER inlet. Its activation is done pneumatically and an uncontrolled opening is prevented by a mechanical lock.

Material feeding with a cone inlet - for low volume storage bin

Material feeding with a cone inlet - for low volume storage bin

HAVER vertical double rotary feeder can be used anywhere where powder type, free-flowing material must be volumetrically fed with consistency.

Impeller sectors, sealed on all sides, rotate about a vertical axis. The material flow is thereby forced and the material cannot simply drop through. The sealing strips are adjustable and replaceable, if necessary.

Power transmission occurs via a flat bevel gear unit driven by an AC motor and drive belts. An adjustable drive unit may be used as well.

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Slide gate valve
Every spout is equipped with the electronic weigher controller MEC II-20 which in addition to controlling weigher functions, controls the machine.

**Weigher functions:**
- automatic taring and zero-setting
- dosing time regulation
- dynamic cut-off point determination
- tolerance evaluation
- coarse flow
- fine flow

**Machine functions:**
- bag breakage detection
- regulated filling box aeration
- rapid discharge
- automatic saddle height adjustment
- bag discharge determination dependent on rotary speed

**Additional features:**
- separate operating terminal IP 65
- touch surface keypad
- 8 status messages
- plain text display, dialog inputs and error messages in a preselected language
- five digit weight display
- memory for storing 31 sorts
- weight correction via check weigher is possible, but not necessary
- network capable
- series interfaces, 20 mA
- PTB test certificate as well as domestic approval and OIML certificate available

The DPS 4.0 data processing system can be hooked up to the MEC II-20. Further details are available from another brochure.
HAVER automatic bag applicator

As an automated system, the RADIMAT automatic bag applicator for rotary packing machines offers maximum flexibility for new projects through its:

- modular design
- standard adaptability to a wide range of bag types
- automatic adjustment for varying bag sizes

Other decisive productivity factors include high speeds and bag placing reliability which don’t adversely affect the subsequent filling system. This allows the use of large diameter filling tubes for achieving:

- maximum filling speeds
- excellent weight accuracies
- exceptional bag cleanliness

Continuous operation is achieved by using a low maintenance servo-drive system that has been tried and proven by HAVER.

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- maximum filling speeds
- excellent weight accuracies
- exceptional bag cleanliness
There are over 100 different methods of loading trucks and more than 50 for railcars.

If you have bag loading problems you can approach us with full confidence that we can together find the best possible solution.

NIAGARA reject screening machines for removing foreign bodies

To assure trouble free operation of packing plants that use impeller filling systems, it is recommendable to remove foreign bodies that may be present in the product.

The closed NIAGARA reject screening machine was specially developed by HAVER for this purpose.

For light operation the free-swinging system is suitable.

For heavy duty, high productivity operation the NIAGARA screening machine with the eccentric drive shaft system is the best choice.

We supply:

Bag loading machines for:

Truck loading machines for loading from the side, from the rear and from above in stationary and mobile design

Railcar loading machines

Multi-stage and three-dimensionally adjustable designs for loading railcars

Manual palletizing loaders

Bag loading machines as palletizing aid

Manual bag loading

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