Form-Fill-Seal system from HAVER:

Customized machine technology, flexibility and productivity to meet your exact needs!
The proven, high performance modules of the HAVER FFS line are put to work in the Form-Fill-Seal ALPHA automatic machines. Together with a HAVER net weigher, the FFS ALPHA weighs, forms and seals up to 500 bags per hour. Based on years of performance of the HAVER FFS-Technology modules, the FFS ALPHA model has been newly designed and makes use of the latest available technology. The FFS ALPHA is designed for handling single or multiple layer, plain or printed PP or PE film with a thickness of 80 to 200 µm. In addition, special multiple layer films such as aluminum PE are easily and reliably handled by a HAVER developed film guiding system.

HAVER’s machine technology allows efficient filling of all loose, free flowing material in granular or powder form. Gentle product transport within the system is provided because of its low profile and minimal product drop height.

Using an integrated gross weigher system, up to 300 bags per hour are filled and sealed. And because of its compact design, the Fill-Form-Seal ALPHA system can be easily integrated with existing processes. The primary advantage is its high degree of flexibility because conversions when changing product types are quick and easy. Changes in film rolls and formats are carried out quickly and easily as well.

The filling spout is built without interior moving parts. This assures trouble-free, fully automatic cleaning during product changeovers. The HAVER FFS ALPHA has proven itself as a versatile allrounder for filling free flowing, loose material where operational requirements and material types change constantly.

Various HAVER systems are available for compacting the product and are designed to match individual product characteristics. The optimized layout of the film welding and cutting unit reduces film overhang to 5 – 8 mm. This results in optimized economy as film costs are reduced.
HAVER system components

1. Film roll reel support
2. Bottom seam welding
3. Opening station
4. Filling spout
5. Bottom seam welding
6. Filled bag transport
Vacuum air extraction
By adding a specially designed vacuum probe to the top seam welding station, air can be extracted from the bag before it is sealed shut. This is an important feature for filling non-perforated bags to be stacked on pallets. Here again, HAVER technology delivers by fulfilling special requirements.

Cleaning station
Wherever product accumulation can occur within the welding area and, as a result, adversely affect the strength of the seam, the HAVER film cleaning system is the right solution. Product accumulation within the welding area is blown off by a compressed air jet. Dust particles are led away by a vacuum hood and carried off to a filter system.

Welding of bag corners
Corner sealing
Diagonal welding of corners provides optimized fabrication of bag bottoms. The result is reduced bag volume, which leads to exact, stable and attractive stacking on pallets. By using corner welding, product entrapment in bag corners is prevented and results in complete and easy bag emptying. The impulse controlled, corner welding unit is positioned in a separate, easily accessible area outside the main machine and may be installed as an option. In addition to corner welding, bags are perforated at the same time. This means optimized air removal from the bag, even while the bag is on the pallet.

The entire control system is built into the ALPHA machine frame and eliminates the need for subsequent wiring work during installation.

User-friendly operator software with graphical interfaces as well as various sensor controlled visualization and auditing programs simplify operation of the FFS ALPHA and increase operational reliability. Clear, easy to follow structures and logical, easy to understand process diagrams are typical features of a HAVER operator’s control panel. Frequently used operational functions such as inputting product type parameters, bag welding parameters etc. are in direct view. The graphical display of individual machine components makes operation a whole lot easier.

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