

HAVER & BOECKER



DIE MASCHINENFABRIK

SMALL PACKAGES FOR 1-10 KG BAGS

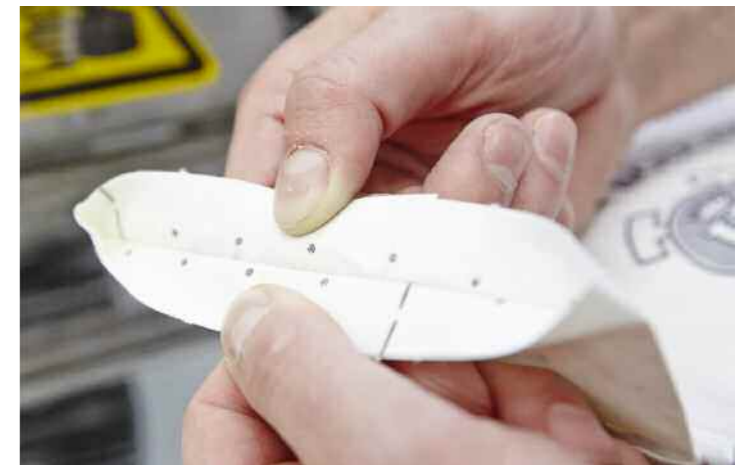




The fully automatic filling machines are especially suited for filling bulk materials in the building products, chemical, and foodstuffs industries.

Requirements for small packaging filling systems

- High capacity
- High level of automation
- Environmental protection
- Ergonomic workplace conditions
- Flexibility
- Minimum downtime
- Clean, precise weight, rugged and compact packaging
- Product protection, foremost against moisture
- Weather-resistant, extended storage time capability
- High impact print on bags and pouches



To meet all these customer requirements, HAVER & BOECKER has various machines technologies. For the various industries HAVER & BOECKER offers two solutions:

- HAVER & BOECKER ROTO-PACKER® mini ADAMS®-Edition for plastic pouches
- HAVER & BOECKER miniSEAL® for paper valve bags



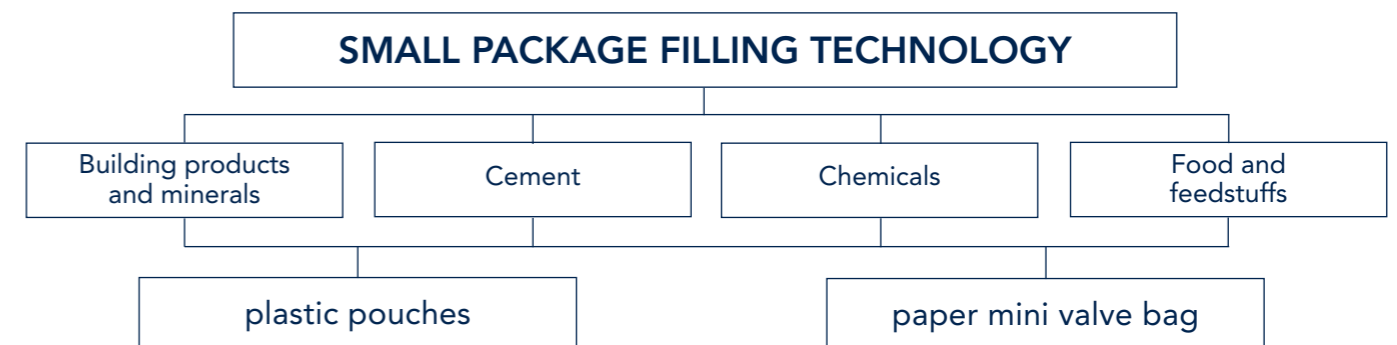
Data-Driven Services – All systems are optionally available with the constant online data transmission of useful performance data and for remote technical maintenance.

Foremost required are comprehensive product and packaging tests at the HAVER Research & Development Center in order to determine the optimum and economical machine solution, which depends on the product properties and bag concept.

Common to all these systems is the large flexibility with respect to frequent product changeovers in the shortest possible times.

FILLING TECHNOLOGY FOR SMALL PACKAGES

In the modern building materials industry, foremost in the do-it-yourself sector, factory-manufactured dry mortar has proven itself. The products are marketed in paper, plastic bags or small bags. To ensure a constant quality level for the various blends, the filling technology that is used plays a decisive role.





The filling system provides a number of important benefits to the customer:

- **WATERPROOF – Top quality in PE bags**
 Tightly sealed PE bags stand for long lifetimes and a consistently high product quality for powdery products along the entire transport and storage chain.
- **CLEAN – ... and attractively packed**
 At building sites, during transport or storage, on the sales floor, inside or outside – PE bags ensure dust-free surroundings, as well as a clean and attractive presentation along the entire delivery and storage chain.
- **PROFITABLE – Highly (cost-)effective**
 PE bags handled with the ADAMS® technology offer cost savings in storage, transport, material and staff. Plastic bags can be presented in an appealing manner, and offer decisive competitive advantages.

mini ADAMS®-EDITION TECHNOLOGY FOR **SMALL POUCHES**

To meet the market demands for greater product protection, longer storage times and increased resistance to weather, HAVER & BOECKER developed a Form-Fill-Seal packing system with a new filling technique.



While filling granulated and particle products with FFS machines has long been common, ultra-fine products pose completely other challenges that need to be dealt with. They have a very high share of dust and must be optimally compacted inside the bag in order to produce a clean and efficient result. The ROTO-PACKER® mini ADAMS® Edition fills for the first time powder-type bulk products into compact PE bags and reaches a speed of up to 600 pouches per hour with steplessly selectable bag weights from 1 to 10 kg. It is also suited for filling pouches made of tubular film or any other kind of premade pouches. By using an additional module, pouches can also be formed directly from the flat film inside the ROTO-PACKER® system.





FULLY AUTOMATIC PACKING SYSTEM

miniSEAL®

for filling bulk materials into small packages of up to 10 kg



Your product determines the system

We select the appropriate filling system to suit your product: air or turbine. The filling unit is also matched to suit the product.

The completely pre-assembled and tested filling unit only needs to be connected to your product and energy supply lines.

This saves valuable installation time.

As a packaging means for dry mortar and building chemical products, the 3-layer paper valve bag established itself many years ago. It comes in a variety of designs and materials, e.g. with an intermediate layer made of PE film, thus allowing the economic filling of dry mortar products.

This miniSEAL® valve bag offers a high sales-power presentation as opposed to conventional packaging. It is an especially consumer-friendly packaging when it has a carrying handle and a pouring spout.

The filled valve bag is pushed gently from the filling spout in the upright standing position and introduced automatically and reliably into the ultrasonic sealer.

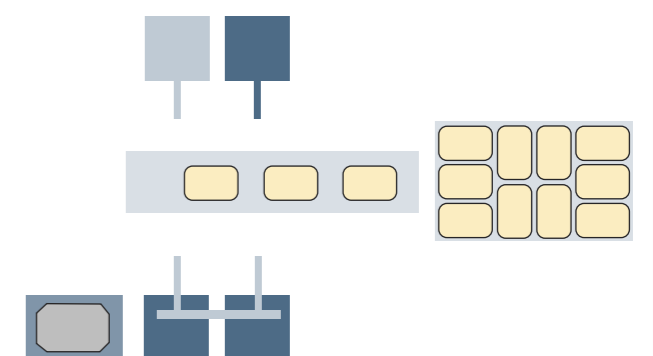
Depending on your requirements for speed, you'll receive a HAVER & BOECKER miniSEAL® with 1 to 2 filling spouts.

Bag handling is fully automatic. Speeds of up to 1,000 bags/hr are possible depending on the product properties and flow characteristics. Changeovers from 2 to 5-kg bags and to other product types are done with ease.

Your benefits:

- Completely pre-assembled and tested packing machine
- Short start-up times on site
- Reduced installation costs
- Clean filling process
- Reduced maintenance costs
- Reduced dust and noise emissions
- Shortest product changeover times

miniSEAL® with 1-2 spouts



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