EXPERTISE IN CEMENT
The earth is small when compared to the large demands of its inhabitants. As a traditional medium sized company, the success of HAVER & BOECKER is not based on its size, but on its innovative spirit and global openness. It's a family owned company that has remained loyal since 1887. That's why customers all over the world have placed their trust in HAVER. This goes without saying for all business areas, and it's always the main focus of the company. Subsidiary companies and representatives on all continents work to uphold the reputation of this ambitious global market supplier.

**Bundled expertise in our portfolio**

The cement industry is an important business sector of the company. As a worldwide leader and supplier of cement packing plants, thousands of storage, packing and shipping facilities have been designed, delivered and put into operation together with customers in over 130 countries. The Cement business unit delivers concepts and solutions that are developed in dialogue with customers – everything from single machines to large-scale turnkey plants.

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**Our range of products and services for the cement industry:**

- Plant engineering
- Manual and fully automatic packing and loading systems
- Palletising systems
- Stationary packing machines with 1 - 4 filling spouts
- HAVER ROTO-PACKERs with 4 - 16 filling spouts
- Valve bag applicating systems
- Valve bag sealing systems
- miniseal® plants for 5-kg valve-bag
- Fully automatic systems for packaging cement
- Packing in bags made from PE tubular film
- Mobile cement packing machines
- Big Bag filling systems
- Bulk loading facilities
- Truck loading
- Wagon loading
- Cargo ship loading
- Screening and classifying, pre-scalping
- Foreign material screening
- Cargo ship unloading
- Silo filling and emptying
- Plant automation and logistics systems
- Installation and plant start-up
- Service
- Shipping system audits
- Financing and leasing
Us. That’s the HAVER Group. In addition to the business sector of cement it also includes the fields of service, mineral processing technology, building materials + minerals and chemicals. Depending on the requirements and the job that needs to get done, expertise is drawn from the various individual areas and put into action.

In dialogue – real life examples speak for themselves
For each of our projects, success does not come from one person, but rather it always comes by synergising the expertise one finds in a strong team. It begins by first determining customer wishes and competent advising by our experts. This is then followed by project planning and detailed design work. Often the real challenge is to achieve as little modification in the existing infrastructure as possible and to integrate the machine systems. Using tact and experience, new plant components, silo facilities, material transport systems, foreign material screening, bag transport or loading systems are implemented without any notable plant stoppages, and done according to a previously defined project execution plan previously made in close cooperation with the plant operator. Not only good machine technology ensures sustainable and significant advantages, but so do machines that are tailored to match the client’s overall concept.
A GROUP OF EXPERTS WITH COMMON GOALS

THE HAVER® GROUP

HAVER & BOECKER North America
HAVER Filling Systems, Inc.
HAVER FRANCE
HAVER & BOECKER IBERICA
HAVER & BOECKER RUSSIA
Haver IBAU INDIA
Haver MIDDLE EAST
Haver CONTINENTAL
Haver IBAU HAMBURG
Haver IBAU SHENZHEN

Russia
CONSULTING AND ENGINEERING

Complete concept planning
Before the decision to invest is made, we offer clients our entire problem solving expertise. Plant and logistics concept planning systematically leads to the construction and expansion of a plant structure that's able to handle the challenges of the future. The target is to have a long-term investment plan and a plant structure with an economically sensible and sustainable base to build on.
Producing a compact, modular facilities plan that takes future requirements into account is no easy task. In addition facilities must also be capable of expanding in order to meet customer wishes. This is a complex task that may not appear to be a typical challenge one faces on a daily basis. But for HAVER, this has long since been our daily work.

Focus on cement filling systems

High speeds, optimum weight accuracy, clean and dust-free filling and saving on bag materials, energy and personnel are the requirements a modern HAVER packing plant must fulfil today. Experience in logistics and planning help to keep the customer’s total project costs modest, and thus make an important contribution to the “total benefits of ownership”. Many customers involve our experts at the very early stages of their planning process. Our services of MASTERPLAN and PLANTAUDIT use a comprehensive approach in addressing customer problems that need to be solved. Renowned cement manufacturers have placed their trust in our expertise.

Machine engineering, logistics and infrastructure in harmony

A good example is Siam City Thailand, a real milestone. Here we have the K5 and K6 packing plants near Siam City Cement (Holcim). Siam City Cement operates the world’s largest automatic packing plant and dispatching facility. It's laid out for 44,000 bags per hour. HAVER & BOECKER machine technology is used here daily: starting with the IBAU silo facilities, it also includes HAVER mineral processing technology and extends to the centrepiece of the complete system – the HAVER ROTO-PACKER®. In this plant alone, Siam City Cement operates 20 ROTO-PACKER®s as well 20 HAVER RADIMAT®s for trouble-free bag application. The plant concludes with automatic loading systems.
HAVER & BOECKER stands for worldwide quality made in Germany. HAVER & BOECKER is certified according to the globally recognised DIN EN ISO 9001:2000 quality management system and guarantees a constant high level of quality.

**Focus level**
The plant control system is state-of-the-art and is guaranteed after installation. Our own control specialists know the processes that are to be controlled. Dispatch automation systems with a connection to the customer's ERP round out our plant control systems. Installation and start-up by our specialists assure short implementation phases and ensure systems quickly go into industrial operation.

**Norms, certifications, facts**
- Certified as to DIN EN ISO 9001:2000
- Machine technology that fulfils all worldwide calibration laws
- Certified system for measuring instruments: OIML
- In-depth knowledge of customer industrial norms and regulations
- EG Machinery Directive 2006/42 EG
- Low Voltage Directive 2006/95 EG
- Electromagnetic Compatibility 2004/108 EG
- Pressure Equipment Directive 97/23 EG
- UL certified circuit system builder

**Smooth processes also after installation**
Good control technology assures excellent systems operation that seamlessly fits to the needs of the existing infrastructure. Here it not only comes down to technology, but it also involves management systems developed and implemented by our expert process engineers.

**Dispatch**
- Operator/process control
- Weighing systems
- Batch management
- Electrical engineering

**Silo / packing plant**
- Dispatch automation
- Truck routing
- Producing transport documents

**Warehouse and stocking**
- Dispatch automation
- Truck routing
- Producing transport documents
When years of experience, innovative technology and market requirements are unified, then a high standard of flexibility is the end result. Today we can say that we have the right machine available for every class of performance. This allows us to fulfill various customer needs and to keep pace with the constantly growing global market changes.

Focus on cement filling machines
Whether stationary or rotating – there’s a machine to choose from for every application and every class of performance. Modular design contributes to easy maintainability and makes future expansion or modifications easy. Key components manufactured in-house and the procurement of standard components from exclusive manufacturers assure optimum machine function and provide our customers with top reliability. For filling cement with stationary machines, 1 - 4 spout machines are available, and 4 - 16 spout machines are available for rotating type packers. The speed per spout depends on the product properties and bag quality and can be over 375 bags per hour. The entire range of packing machine speeds can be automated using valve-bag automatic applicator machines. Bag discharge machines with integrated control and correction weighing ensure only conforming bags enter the palletising unit and reach the customers. More than 8000 stationary filling machines and more than 3500 HAVER ROTO-PACKERs are examples of the trust customers have placed in HAVER.

In the meantime the name HAVER ROTO-PACKER® has become synonymous to worldwide success. It is often copied, but the standards of the original are never reached. The significance of the having the original is clearly underscored by the new VDMA campaign: “Choose the Original – Choose Success!”. The VDMA, Association of German Machine Manufacturers, and its members are mounting a defence against copies and the infringement of intellectual property rights.

<table>
<thead>
<tr>
<th>Spouts</th>
<th>Up to 25kg</th>
<th>Bags/hr</th>
</tr>
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<tbody>
<tr>
<td>4</td>
<td>1 500</td>
<td>1 300</td>
</tr>
<tr>
<td>6</td>
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<td>4 550</td>
</tr>
<tr>
<td>16</td>
<td>6 000</td>
<td>5 200</td>
</tr>
</tbody>
</table>

Depends on product

PERFORMANCE AND MODULARITY
Solutions on the spot

With its HAVER ROTO CLASSIC® as the most modern of the HAVER ROTO-PACKER® series, the HAVER ROTO CLASSIC® family continues its decades long success story in cement filling. It begins with the 4-spout design and ends with the high speed 16-spout HAVER ROTO CLASSIC® machine. We have a broad product range that offers the right solution with the high levels of flexibility to suit every need. The HAVER ROTO CLASSIC® sets new standards in ease of maintenance and machine operational availability.
... and representatives all over the world!

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