



A HAVER & BOECKER BRAND

Your Partner in the
Food Industry

PERFECT FLOW - How we bring your products into perfect flow

Our solutions...

- bagging systems for valve bags, open-mouth bags, FFS bags and big bags
- palletisers
- silos, conveyors, bulk loading technology
- digital products for process visualisation, warehouse logistics and recording of the plant effectiveness

...focused on your products:



Cocoa products
(cocoa powder, cocoa nibbles
and cocoa cake)



Starch products
(corn starch, potato starch,
dextrose, maltodextrin and
gluten, proteins, etc.)



Pharmaceutical products,
milk powder and baby food



Milling products (wheat or
rye flour, meal and bran,
baking mixes, oatmeal, etc.)



Sugar or sugar derivatives
(crystal or icing sugar,
sorbitol or fructose, etc.)



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PROcheck - the complete view of your packaging process



Maximise your profits with PROcheck.

Using our new PROcheck approach, we examine the potential of our customers' processes. The aim is to optimise machines, systems and plants in such a way that they can operate even more successfully and profitably.

PROcheck

Diagnostics	Take advantage of our services, software and analytical equipment, in order to achieve the best possible economic result with your process.
Systems & plants	Under the umbrella of our parent company, Haver & Boecker, we have gathered the best brands to give you an installation or system without compromise.
Process engineering	Shape your concepts and ideas with our customised, experience-based engineering services.
Equipment	Use the correct machine technology, adapted to the specifications of your products, to meet your expectations.
Consumables	We advise you on your consumables at every stage of your project; we develop proposals and even provide the consumables.
Original parts	Do not compromise, buy BEHN + BATES original parts. Our original parts are your guarantee that your system will run optimally.
Rebuilds and upgrades	Pick up on new developments and technologies by converting and modernising your plant - and bring it up to the standard you need today.
Service	Combine your experience with ours to ensure professional commissioning for your plant start-up and guarantee consistent packaging quality through regular support.

We are there for you.

With our life-cycle approach, PROcheck improves and extends the service life of your plant. So that you can continue to be in the PERFECT FLOW in the future.



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For smooth product filling into valve bags - Our pneumatic and turbine packers

The all-rounder for valve bags - Our pneumatic packer

The pneumatic packer ensures equal product discharge from the filling vessel through the conveying air quantity, which can be adjusted depending on the product. During the filling process, the special BEHN + BATES venting tube extracts the air from the bag.

Technical finesses of our pneumatic packer:

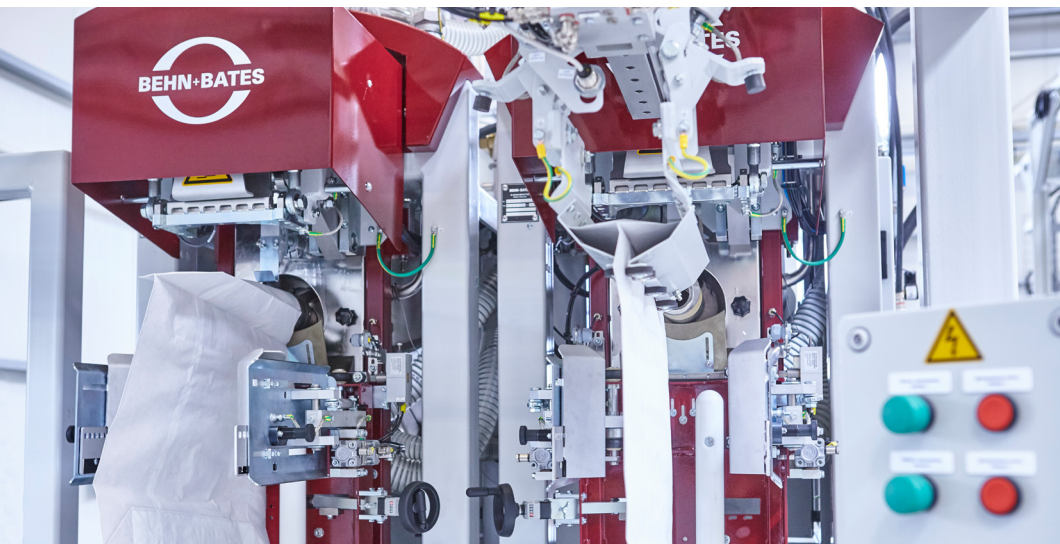
- Special BEHN + BATES venting spout with product recirculation to the pre-hopper for high filling capacities with low internal bag pressure and minimum dust generation
- Separately adjustable conveying air quantities depending on the product
- Quickly replaceable aeration plate
- Integrated product collection tray for easy cleaning
- Fully ventilated bowl for careful handling of difficult to fluidize products

Fastest filling technology for powder - Our turbine packer

Our turbine packer stands for fast and low-dust filling, also of fine powdered and easily flowing products. Your product is decisive for the choice of a vertical or horizontal turbine wheel as well as the design of the turbine wheel diameter.

Technical finesses of our turbine packers:

- Optimal pallet utilization due to particularly compact, low-air bag filling
- Improved product shelf life due to reliable filling of tight bags
- No product loss due to weight-accurate filling via the filling turbine designed to suit the product
- High packaging performance due to bag filling without overpressure and minimal venting times



Your advantages - Our pneumatic and turbine packer at a glance

- High packaging outputs due to bag filling without overpressure and minimal deaeration times
- Precise filling by weight due to coarse and fine dosing
- Increased product protection during filling by metal detector, integrated in the filling channel, with test device for different types of metal
- Reduced maintenance due to use of low-wear components
- Dust-tight sealing of the bag to be filled by the BEHN + BATES filling spout with inflatable sleeve
- Low cleaning effort due to minimum residual product quantities

The special feature.

Your products will only meet the quality required on the market if they arrive at your customers perfectly protected from external influences. To ensure that this is the case, we equip every filling machine that leaves our production with our ultrasonic sealing station. It seals all PE-coated valves cleanly and tightly directly at the filling spout.



Potato starch, sugar, flours, baking mixtures and meal, proteins, cocoa powder, wheat flour, corn starch, etc.



250 bags/h per spout at 25 kg (pneumatic packer) up to 300 bags/h per spout at 25 kg (turbine packer)



from 5 kg to 50 kg



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Plug 'n Pack - INTEGRA FD



Reduced machine noise, a clean working environment: thanks to our Plug 'n Pack concept, the entire process of bag application, filling and sealing takes place in a dust-tight enclosed cabinet.

Your advantages:

- High cleanliness of the working environment
- Reduced commissioning costs due to complete pre-assembly
- Space saving due to integrated pneumatic and electric cabinets
- High operating comfort due to the touch panel and large polycarbonate windows for visual control

Options:

- Over-pressurisation with filtered air to create a hygiene zone
- Extendable versions for later retrofitting of filling spouts to increase capacity
- Different bag magazines depending on the desired capacity and space conditions



Empty bag horizontal magazine



Bundle carriage



Vertical magazine



The right filling technology for your product.

Air or impeller. The number of filling spouts is determined to suit your product. From 1 - 4 nozzles, everything is possible, even retrofitting at a later date.



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Straight ahead - Our bag applicator



For automation of your bagging system, we offer you our FRONTLINE and COMPACT valve bag applicators.

Your advantages:

- Safe application of the bags through linear movements
- Optimum pre-opening of the valves through opening cones
- Flexible space planning due to free choice of bag magazine
- Reduced maintenance required due to good accessibility
- Easy conversion to different bag sizes

Options:

- Integration of a labeller for marking the empty bags
- Magazine carriage, vertical magazine or horizontal magazine
- Motorised drives
- Extendable versions for later retrofitting of filling spouts to increase capacity



Opening cone



Bag placing



Integrated label printer



The special feature.

All of our bag applicators place the bag linearly on the filling spout.



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The high performer - Our ROTO-PACKER



Product infeed into the rotating packing hopper



Automatic placing of empty bags



Residual product funnel

Highest bagging capacities of up to 2,400 bags/h can be achieved with our ROTO-PACKER for valve bags. The filling spouts on the ROTO-PACKER are mounted on a rotating frame. This results in a reduced space requirement. The bags can be placed on the filling spouts both manually and by our RADIMAT bag applicator. Before discharge, bag sealing is possible directly at the filling spout, using our ultrasonic sealing station.

Our ROTO-PACKER works with the correct filling system for your product: air or impeller. You decide how many filling spouts your ROTO-PACKER will have: what counts is performance or also your desire for expandability at a later date.

Your advantages:

- Cost efficiency through a central product supply and a central full-bag transport system
- Improved economic efficiency due to a higher performance in a small space
- Clean product handling thanks to an on-demand filling system and ultrasonic sealing directly at the filling spout
- Reduced maintenance efforts due to continuous gentle operation of downstream units
- Simple automation with the RADIMAT valve bag applicator
- Successive increase in production due to an extendable machine design - without changes to the periphery
- Higher maintenance efficiency due to individual filling spouts that can be switched off

Options:

- An empty bag cell magazine in an extended version for up to 700 bags
- An alternative version with a roller magazine
- Automatic emptying of residual product
- A second product inlet



Flours, starch,
Granulated sugar etc.



up to 2,400 bags/h
per spout at 25 kg



from 5 kg to 50 kg



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Fast and versatile - Our FFS packaging technology



A guarantee for maximum performance and convenience when granulate filling - that's what the flexible FFS systems produced by our sister company AVENTUS stand for. The TOPAS SF as well as the other design types FFS 600 and INTEGRA ISF are compact, completely enclosed packing machines for filling grains and granulates. They, too, function according to our proven Plug' n Pack principle, so they only need to be connected and adjusted for your product. Filling can begin right away.

Your advantages:

- Excellent product protection against moisture and external influences in the tightly welded PE bag
- High cleanliness due to low dust bag filling
- Optimal storage due to compact, box-shaped bags - easily stackable and ideally suited for automatic storage systems
- Intuitive operation due to high data transparency
- Easy maintenance due to good accessibility
- Attractive marketing through packaging of your products in high-quality printable, promotionally effective film sacks
- Reliable processing of the latest modern film qualities with, for example, a high recycled content or special oxygen barrier
- Space-saving, high-performance and robust machine design
- Reliable weight accuracy through product-specific gross or net weighing



Granulated sugar, rice, cereals etc.



of over 2,600 bags/h
in real packaging operations
(TOPAS SF)
per spout at 25 kg



from 10 kg to 50 kg



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Trendsetting - Our ADAMS Edition



Top marks for product protection, logistics and product presentation - the FFS sack formed from an endless side gusseted tubular film meets these requirements. Our ADAMS technology for powder allows you to:

- Optimum bag preparation by cutting off the film length required for your product and subsequent bottom seam and corner welding
- A clean filling thanks to the dust-tight BEHN + BATES powder filling spout, which fills your product according to the gross system via air or turbine units
- A clean and efficient overall result due to internal and bottom vibrators for optimal product compaction in the bag

Your advantages:

- Excellent product protection against moisture and external influences in the tightly welded PE bag
- Compact bag shapes due to simultaneous bag filling and compaction as well as integrated corner welding
- Environmental friendliness due to the dimensionally accurate packaging and the resulting reduction of packaging material
- The highest tensile strength of modern - even the thinnest - films to avoid bag breakage in the entire logistics chain
- A perfect appearance through sophisticated bag printing with possible gloss effects – for high customer acceptance

Options:

- Personalised RFID registration with chip or stick
- Bag labelling with printer or labeller
- A vacuum lance or vibrating bottle for product compaction
- Automatic conveying air and dosing control



e.g. additives,
Starch derivatives,
Potato powder etc.



up to 200 bags/h
per spout at 25 kg

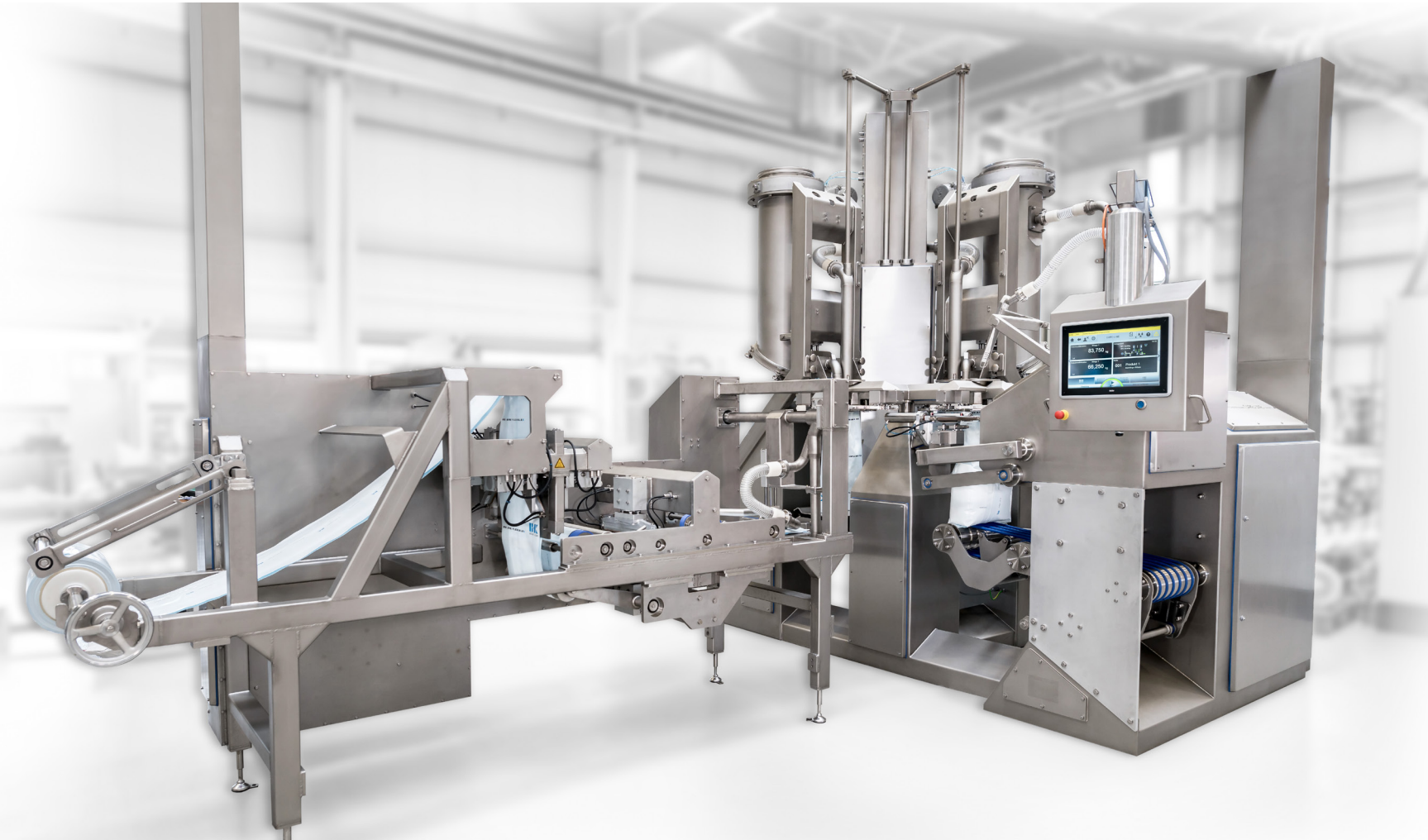


from 5 kg to 25 kg



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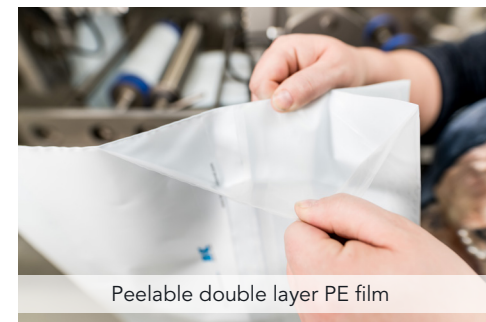
WE TAKE CARE - Our ADAMS CARE-LINE EDITION



Rotating filling spout



Round belt conveyor in hygienic design



Peelable double layer PE film

Under the motto „WE TAKE CARE“, our BEHN+BATES experts have introduced the ADAMS CARE-LINE Edition to the market - a packaging solution that meets EHEDG guidelines by combining proven components and innovative hygiene aspects. The special feature is that the most hygienic packaging material for highly sensitive food - airtight PE film bags - is used for processing.

Your advantages:

- maximum product protection using airtight PE film bags, edge-sealed bag sealing and minimal component use above the filling spout
- maximum cleanliness due to the use of completely encapsulated components, as well as rounded corners and bevelled edges
- maximum weight accuracy through separate coarse and fine flow dosing
- reduced maintenance efforts due to continuous gentle operation of downstream aggregates
- a compact bag shape due to corner welding for stable side gussets and head air extraction before closing of the filled bag
- easy operation thanks to the clearly laid out touch panel and the open and accessible machine design for quick cleaning and maintenance
- environmental compatibility due to reduced packaging material requirements and use of pure and recyclable polyethylene films



Pharmaceutical products,
baby food,
milk powder etc.



up to 300 bags/h
(for films with venting capability)
up to 200 bags/h
(for dense films)
per spout at 25 kg



from 10 kg to 25 kg



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Weighty - Our ELEMENTRA EGF filling station for big bags



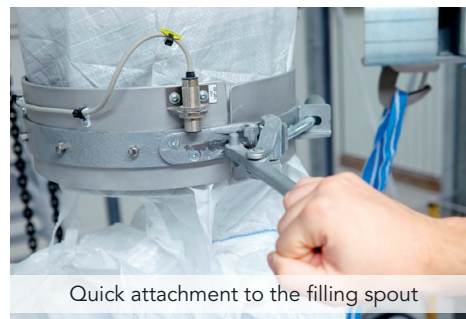
Get your products on their way cost-effectively and in a way that conserves resources. We supply the big bag filling station ELEMENTRA EGF in an hygienic design, with and without automatic pallet transport.

Your advantages:

- operator friendliness due to swivelling rear suspension hooks for good accessibility by operating personnel.
All four hooks open automatically after filling
- cleanliness due to an inflation sleeve with a counter pressure ring, which seals the large bag during filling
- shape-stable bags due to product-appropriate metering and compaction, for which we use a vibrating table

Options:

- magnetic grids and metal detectors with a testing device
- an automatic empty pallet feeder with a cover sheet feeder
- automatic full pallet transport
- palletless large bag transport



up to 20 bags/h for powder
up to 30 bags/h for granules
at 1.000 kg

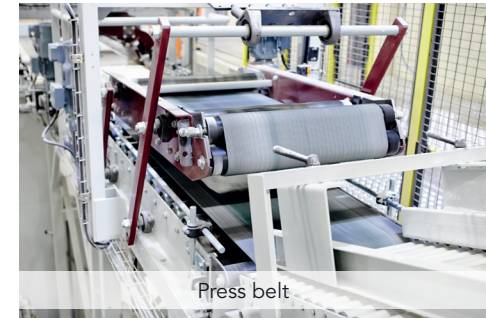


from 250 kg to 1.400 kg



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Down to earth and up high - Our TERRAM and ARCUS palletising systems



Press belt



Turning cross



Layer setting

Particularly gentle bag handling; that is what our palletisers, produced by our sister company NEWTEC BAG PALLETIZING, stand for.

The G300 and G600 palletiser

The filled bags are placed directly on the pallet individually by the gripper robot according to the specified measurement.

The TERRAM palletiser

The palletiser with the bag feed at floor level, capable of up to 1,000 bags per hour. A turning clamp or a cross aligns the bags. The palletiser is low-maintenance and easily accessible for maintenance at all levels.

The ARCUS palletiser

Bag palletising systems from 600 to 2600 bags/h. These automatic palletisers are suitable for a very wide range of products and bag types. A turning clamp or a cross aligns the bags. The layers are built up row by row, taking into account the shape of the bag. Each layer is balanced and pressed to optimise the pallet geometry. The modular design can be expanded as throughputs and pallet patterns change.

Your advantages:

- project-oriented machine design due to the standardised modular machine construction
- gentle bag handling due to the full bag gripper, turning clamps or cross and precise positioning on the pallet or stripper plate
- optimum straight and attractive bag stacks through use of conforming and centering plates as required
- reliable handling of different bag formats - and also of difficult-to-handle bags with a low fill level or easily flowing products
- software with automatic pallet calculation and position determination depending on the bag/pallet format and palletising scheme



We deliver.

Complete storage, packaging and loading systems for bulk materials and liquids in a premium quality from a single source. You have one contact person and benefit from the expertise of an entire system chain.



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The fuel for your PERFECT FLOW - Consumables

Ideally, product, container and machine technology form a perfectly harmonised unit as a so-called packaging triangle. In addition to the most modern filling technology, we design the right packaging for each of your products. Whether you want to start up, ramp up or simply continuously optimise your process, we will provide you with the fuel you need.

From consultation to delivery. The advantages of our services at a glance:

- A cross-process concept - we take care of all your packaging needs
- Comprehensive advice on functionality, order quantity, leak tightness, cleanliness, efficiency, costs and quality
- Economical packaging solutions for the filling of your food thanks to proven analytical equipment and many years of know-how
- A guarantee for consistently high quality



For continuous and trouble-free packaging operation - Original parts

With our original spare parts you get the maximum performance and reliability from your packaging solutions. This sustainably increases your machine running time.

Why you should rely on our original parts:

- assured performance of your machine through the use of original parts
- the perfect fit of original parts
- assured performance of your machine
- long service life of your machine
- comprehensive advice for optimum parts stocking in your company



You are able to act at any time.

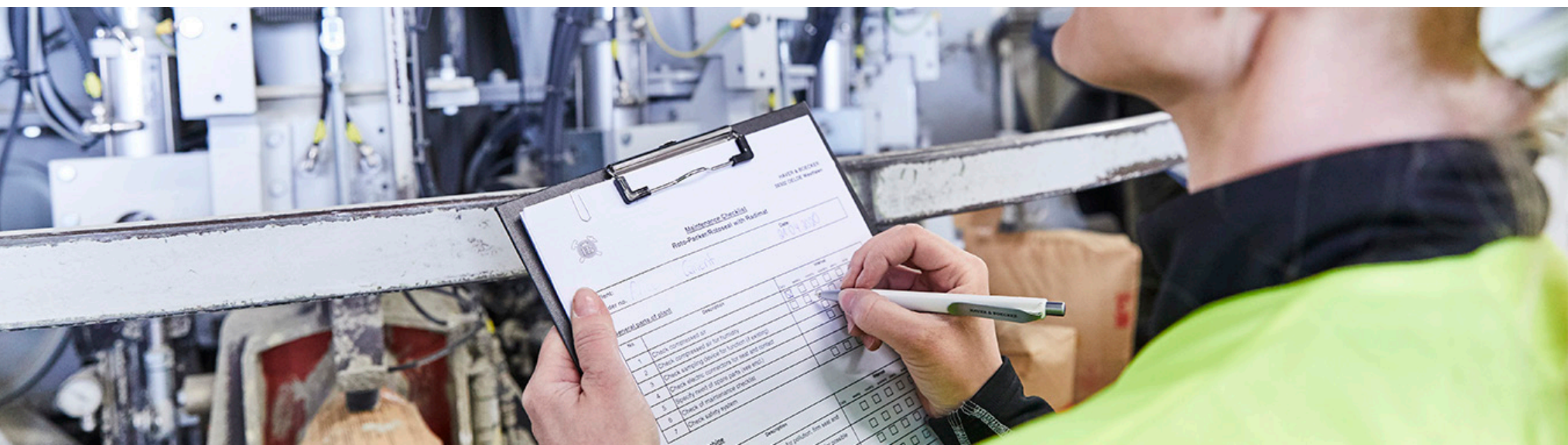
Order your spare parts 24/7 from the web shop. In just a few steps from selecting the right spare parts to confirming your order in the HAVER & BOECKER web shop.

STAY BETTER with our conversion packages - Modernisation and conversion

The smart way to optimise existing packaging lines is to invest in conversion packages. Because: it is often the small measures that help to achieve a significant improvement.

Why you should modernise your existing machine:

- A conversion option for components that are no longer available
- Fast commissioning and reduced downtimes through takeover and retention of the existing machine structure
- Preventing plant downtime by, for example, replacing the no longer deliverable maintenance units by the current version
- Cost savings through, for example, use of remote access to the machine control system for diagnosis and troubleshooting



Set your sights on success - Professional commissioning for your plant start-up

High availability and reliable performance - you associate high expectations with the purchase of a new packaging system, which we are happy to fulfil for you. Lay the right foundation together with us by having our experts carry out the commissioning.

It, too, is one of the cornerstones - regular maintenance.

Your packaging line will only function reliably for decades if it is continuously maintained and serviced. Within the scope of maintenance, the necessary adjustments and repairs are carried out preventively - and thus production downtimes are avoided.

This is how you benefit from our services:

- Everything from a single source: Reliability from initial planning to the ready-to-operate plant
- Time and cost savings through the expertise and practical experience of our service technicians
- Optimum support for your line for a consistent packaging quality



At home in the world.

Our service technicians are stationed in many regions of the world. Thanks to our regional proximity, they can reach you quickly.

Your entire process in view - Right from the start

Count on our holistic concept planning - Systems and plants.

Your packaging success is the result of comprehensive planning, carefully selected filling technology and an overall concept optimally matched to your project, which also includes the upstream and downstream system components, e.g. silo technology, conveyor systems, bulk loading technology, etc.

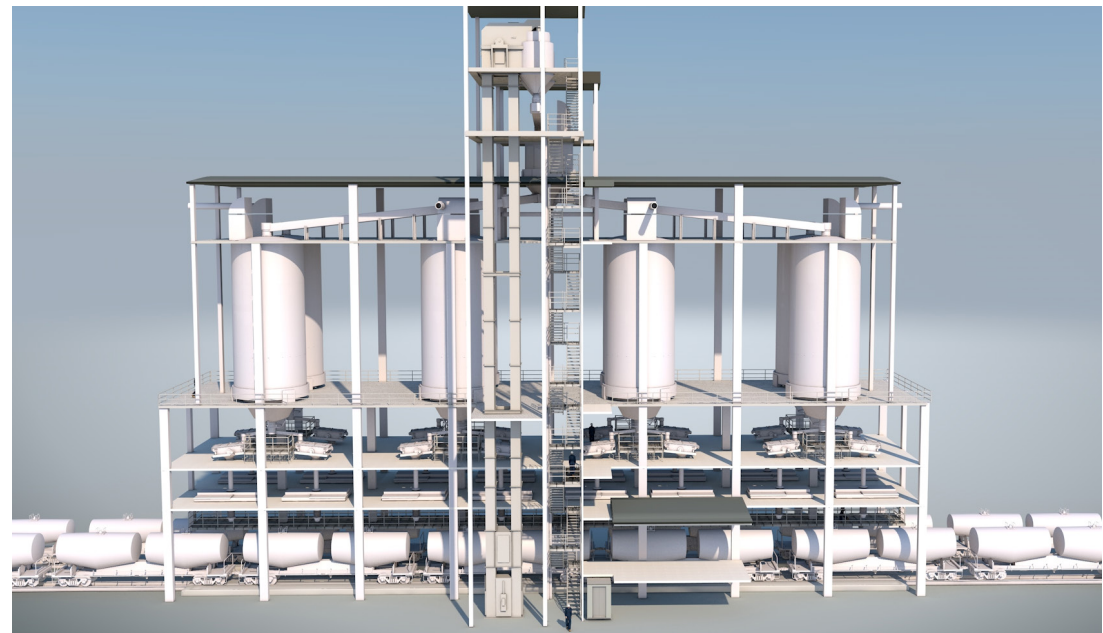
We develop comprehensive solutions for hygienic, reliable and economical processes in food processing in close cooperation with our sister company IBAU HAMBURG - the specialist for bulk handling, silos and storage.



Making your packaging perfect - Process engineering.

Through use of detailed analysis options in our institute, we guarantee perfectly coordinated interaction between your product, the packaging material and the machine.

The bag and product analyses that make up our range of analyses lead to high-performance bagging and end-of-line packaging systems - precisely tailored to your modern packaging process today and tomorrow, with increasing digitalisation and networking.



Fast troubleshooting through remote diagnosis - Digital services.

You will receive support quickly. On request and depending on availability, our specialists will connect to your system with secure access to provide you with the best possible support in troubleshooting. Together we check error messages, production parameters as well as machine settings and identify defective parts for quick allocation of the correct spare parts.

Meaningfully processed - our data management systems (QUAT²RO).

We offer different software solutions around all your packaging and converting processes, e.g.:

- Individually tailored software packages up to complete packages for the entire value chain
- Optimization of your production through improved monitoring with real-time data tracking, storage and intelligent automatic parameter adjustment
- Increasing data transparency and improving data analysis through continuous production data acquisition



Networked machines are less prone to failures.

Enjoy making a system work for you instead of working for your system.



That is US! - Your partner in the food industry

BEHN + BATES - the technology and service specialist for high-quality bag filling machines with a focus on the food industry. We manufacture manually operated packers, fully automatic bagging lines and highly hygienic filling machines as required for baby food and pharmaceutical products. We also supply palletisers, liquid filling equipment and storage systems. Our PROcheck products target complete process engineering, digital solutions, packaging material design, spare parts and maintenance management.

We have been serving our customers as a subsidiary of the HAVER & BOECKER Group for almost three decades. With our globally active sister companies and representatives, we offer our solutions to our customers in more than 60 countries around the world.

We look forward to being there for you in the future!

For you. For the future. To your advantage.



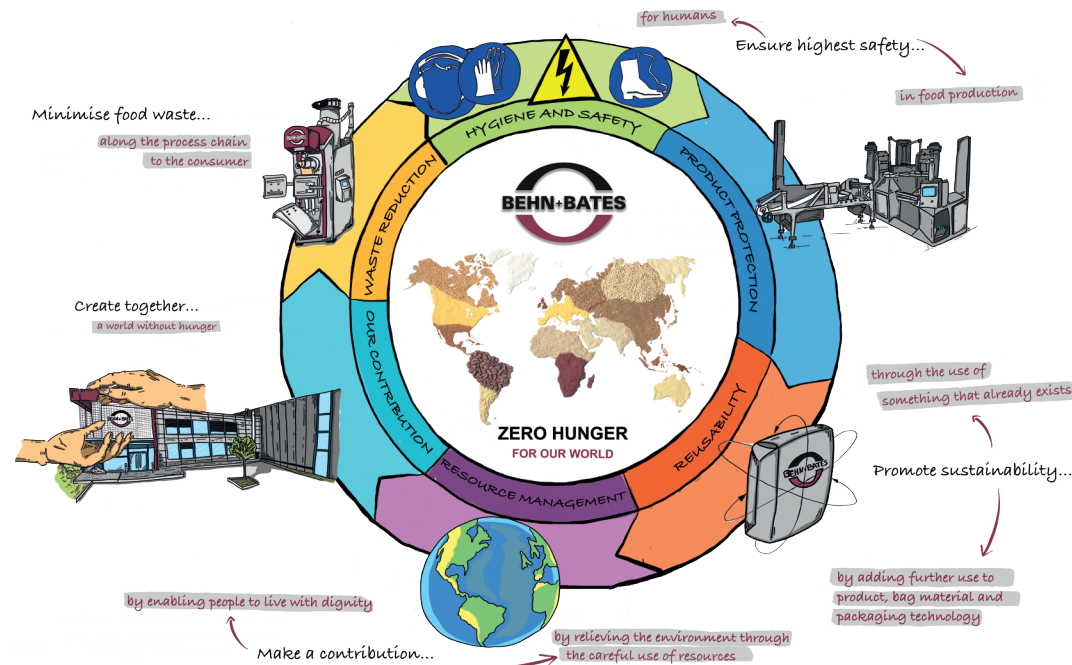
ZERO HUNGER - Our contribution

In 2015, the United Nations announced 17 global goals for a better future, including goal No. 2 - end hunger, achieve food security and improved nutrition, and promote sustainable agriculture. The natural resources, the knowledge and the technologies are available. The Sustainable Development Goals (SDGs) can be achieved if governments, businesses and all citizens work hand in hand to realise them.

As a company that packages food products, we see it as our responsibility to protect and preserve food in order to help shape the goal of a world without hunger.



For a successful and, above all, helpful contribution, we have entered into a corporate partnership with WELTHUNGERHILFE (WHH).



ZERO HUNGER.

As a corporate partner of WELTHUNGERHILFE (WHH), we support a project in northwest Syria. The focus is on bakeries and bread supply for the people.



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PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING DIGITALIZATION



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