

HAYER & BOECKER



DIE MASCHINENFABRIK

PROCHECK THE HANDBOOK



PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



HAYER & BOECKER



We are at your side throughout the entire life cycle

Mastering the three dimensions of product, packaging or screening media and machine technology is the basis of our expertise and the starting point for your perfect flow. With our PROcheck life-cycle approach, we add the time component and accompany you on the way to your goal. We understand it as our philosophy and it's our understanding for a functioning and successful partnership to always have your process in view and to look after it throughout its entire life cycle with our products, our services and our tools. We've developed PROcheck as an orientation for precisely this because "we are always there for you". PROcheck systematizes all instruments and actions with which you can keep an eye on the efficiency and potential of your processes at all times and optimize your success:

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With PROcheck, we show you very specifically where and how you can sustainably maximize your productivity and thus your results over the entire life cycle of your plants, systems and machines. So that you'll be also in perfect flow in the future!

We are always there for you

To accompany and inspire you on your way to your "Perfect Flow", we have developed PROcheck. Our commitment to and our understanding of this approach have a lot in common with all of our personal lives. After all, it makes sense to identify the root causes of our challenges, to focus on the right equipment, to consume intelligently and sustainably, to replace what needs to be replaced, to constantly adapt to current requirements, to combine our own experience with the know-how of experts, to implement plans and goals with uncompromising, comprehensive solutions, and to shape concepts and ideas with experience-based services.

PROcheck stands exactly for this "we are always there for you".

PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



PROCHECK DIAGNOSTICS



IDENTIFY THE ROOT CAUSE OF YOUR CHALLENGES BEFORE THEY BECOME CRITICAL.

Every good doctor knows: The key to good health is not treating symptoms, but identifying the cause. Your process is no different. Don't spend an endless amount of time and energy fighting the symptoms. Remedy the cause with our help and with smart services, software and analytical devices. Because only healthy processes are really economical.



DIAGNOSTICS – DEFINITION

The PROcheck Diagnostics category includes products such as Pulse (vibration measurement on screening machines), QSI (QUAT²RO[®] System Intelligence) with the associated products and POP – Plant Optimization Plan (plant and machine audit), with which we can primarily examine, analyse and interpret their machine and plant conditions for the customer.



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 HAVER & BOECKER Maschinenfabrik

HAVER & BOECKER NIAGARA for Processing
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 - Pulse Vibration Analysis
 - Pulse Condition Monitoring

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IBAU for Storage and Handling
 - Plant Optimization Plan
 - Silo Audit

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 IBAU HAMBURG

SOMMER for Mixing
 - Plant Optimization Plan
 - QUAT²RO[®] System Intelligence

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 SOMMER ANLAGENBAU

FEIGE for Filling
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 - QUAT²RO[®] System Intelligence

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 Feige FILLING

AVENTUS for Packing Granules
 - Plant Optimization Plan
 - Bag Testing Equipment
 - Product Testing Equipment
 - System Intelligence

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BEHN + BATES for Packing Food
 - Plant Optimization Plan
 - Bag Testing Equipment
 - Product Testing Equipment
 - QUAT²RO[®] System Intelligence

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 BEHN + BATES

HAVER & BOECKER for Packing Powder
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 - Bag Testing Equipment
 - Product Testing Equipment
 - QUAT²RO[®] System Intelligence

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NEWTEC for Palletizing and Loading
 - Plant Optimization Plan
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HAVER & BOECKER Automation
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 - QUAT²RO[®] System Intelligence
 - QUAT²RO[®] Performance

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 HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK DIAGNOSTICS



CONSUMABLES



■ CONSUME INTELLIGENTLY

Did you know that some processes spend more money on the annual requirement of consumables, than they spent on the original one-time investment of equipment, which requires them? Consumables are the fuel for your process. You need the right material for peak performance and

success. We consult, design and even provide your consumables for every step and phase of your project. Regardless of whether you are commissioning, ramping up or you simply want to optimize your process on an ongoing basis.

DECISIVE BASICS



■ WE'RE THE EXPERTS FOR THE CRUCIAL BASICS HAVER & BOECKER INSTITUTE

Our HAVER & BOECKER Institute is the place where we bring our packing triangle to life. Here we take such a close look at your product so that we can define the ideal machine technology on the basis of the results, and then design the packaging or screening media to fit it precisely.

OPERATION & MAINTENANCE



■ IMPROVE THE PERFORMANCE OF YOUR PLANT: CONTINUOUSLY!

No one has as much experience in dealing with your investments as you do. Think about what could happen if you combined that experience with the perspective of the people that built it. We are convinced that by working hand-in-hand as process partners, we can achieve a level of performance you did not think was possible when you first invested into your plant or system.

HOTLINE



■ WE WON'T LEAVE YOU OUT IN THE RAIN – TAKE US AT OUR WORD

Our HAVER & BOECKER machine technology stands for the highest quality and reliability. Some of our packing lines have been in operation for over 40 years. Nevertheless: Sometimes there's a hitch somewhere. We won't leave you out in the rain! With our 24/7 hotline, we're there for you, around the clock – 365 days a year and free of charge.

Together with you, our experts will locate the fault in your system and support you in rectifying the problem. If necessary, a qualified service technician will come to your plant as quickly as possible. Reduce downtime and breakdown costs to a minimum and restore the usual plant productivity.



DEPLOY THE RIGHT EQUIPMENT, ADAPTED TO YOUR PRODUCTS' SPECIFICATIONS IN ORDER TO MEET YOUR EXPECTATIONS.

In industrial processes, it is like in sports: You can only achieve peak performance if your heart function is adapted to the task at hand. The heartbeat of any process is generated by the machine technology that drives it. Do not compromise when it comes to the most important organ of your process. Make sure that the technology you use is adapted to your product and not the other way around. The development of our technology brands is driven by precisely this conviction and by the passion to make you as successful as you want to be.

EQUIPMENT – DEFINITION

In the case of equipment, we speak of units consisting of components that fulfil a function, e.g. screening machine, bucket elevator, packing machine, palletizer and stretcher.

Components are defined mechanical, pneumatic, electrical and electronic parts that fulfil partial functions, e.g. initiator, cylinder, touch panel.



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HAVER & BOECKER NIAGARA for Processing

- N-Class and F-Class – Eccentric Screens
- T-Class – Concentric Screens
- XL-Class – Exciter Driven Linear Screens
- L-Class – Shaft / Motor Driven Linear Screens
- Scarabaeus – Pelletizing Discs

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IBAU for Storage and Handling

- Pneumatic Conveying and Silo Components
- Bulk Loading Components
- Dry Bulk Mixer

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IBAU HAMBURG

SOMMER for Mixing

- Coaxial and Multi-shaft mixer

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SOMMER ANLAGENBAU

FEIGE for Filling

- ELEMENTRA® – Semi-automatic Can/Drum/Pallet Fillers
- INTEGRA® – Automatic Can/Drum/Pallet Fillers

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Feige FILLING

AVENTUS for Packing Granules

- TOPAS® – High-speed FFS Packing Machines
- INTEGRA® ISF – Fully Automatic Packing Machines
- ELEMENTRA® – Semi-automatic Packing Machines
- PLATINUM – High Speed Palletizers

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AVENTUS

BEHN + BATES for Packing Food

- ELEMENTRA® – Semi-automatic Packing Machines
- INTEGRA® – Fully Automatic Packing Machines
- ROTO-PACKER® – High-speed Packing Machines
- TOPAS® – High-speed FFS Packing Machines

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BEHN + BATES

HAVER & BOECKER for Packing Powder

- ELEMENTRA® – Semi-automatic Packing Machines
- INTEGRA® – Fully Automatic Packing Machines
- ROTO-PACKER® – High-speed Packing Machines
- RADIMAT® – Bag Applicator
- ADAMS® Technology
- SEAL Technology
- Components

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NEWTEC for Palletizing and Loading

- TERRAM – Floor Level Palletizer
- ARCUS – High Level Palletizer
- AURUM – High Level Palletizer

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NEWTEC BAG PALLETIZING

HAVER & BOECKER Automation

- QUAT²RO® Process – Process Visualization
- QUAT²RO® Production – Production Management
- QUAT²RO® Batch – Batch Management
- QUAT²RO® Logistics – Intralogistics
- QUAT²RO® Data – Watching Data Statistics

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HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK EQUIPMENT



DIGITAL SERVICES



■ USE THE INTELLIGENCE OF YOUR SYSTEMS

Enjoy making a system work for you instead of working for your system. Networked machines are less prone to stoppages. They automatically, effortlessly and securely provide data that can signal potential maintenance issues

while enabling deep new insights into machine productivity, scrap rates and more. Use the full range of digital options for process monitoring, control, analysis and optimization.

CONSUMABLES



■ CONSUME INTELLIGENTLY

Did you know that some processes spend more money on the annual requirement of consumables, than they spent on the original one-time investment of equipment, which requires them? Consumables are the fuel for your process. You need the right material for peak performance and success. We consult, design and even provide your consumables for every step and phase of your project. Regardless of whether you are commissioning, ramping up or you simply want to optimize your process on an ongoing basis.

HOTLINE



■ WE WON'T LEAVE YOU OUT IN THE RAIN – TAKE US AT OUR WORD

Our HAVER & BOECKER machine technology stands for the highest quality and reliability. Some of our packing lines have been in operation for over 40 years. Nevertheless: Sometimes there's a hitch somewhere. We won't leave you out in the rain! With our 24/7 hotline, we're there for you, around the clock – 365 days a year and free of charge.

Together with you, our experts will locate the fault in your system and support you in rectifying the problem. If necessary, a qualified service technician will come to your plant as quickly as possible. Reduce downtime and breakdown costs to a minimum and restore the usual plant productivity.

CALIBRATION



■ THE BASIS FOR YOUR WEIGHT ACCURACY

Are your bags filled to the exact weight or do you add a little extra to be on the safe side? We know you have to rely on your weighing technology. Therefore, with our manufacturer's calibration, we guarantee you a precisely defined

measuring accuracy within the permissible calibration tolerance according to legal requirements (OIML R61 or 2014/32/EU). So that you weigh according to the guidelines and don't waste your valuable product!



CONSUME INTELLIGENTLY BY ENSURING YOUR PROCESS RECEIVES WHAT IT REQUIRES TO OPERATE PERFECTLY.

Did you know that some processes spend more money on the annual requirement of consumables, than they spent on the original one-time investment of equipment, which requires them? Consumables are the fuel for your process. You need the right material for peak performance and success. We consult, design and even provide your consumables for every step and phase of your project. Regardless of whether you are commissioning, ramping up or you simply want to optimize your process on an ongoing basis.

CONSUMABLES – DEFINITION

Consumables according to the HAVER & BOECKER definition are products that are intended for consumption. Consumables at HAVER & BOECKER are divided into wear parts and consumables: Wear parts are products that the operator of a machine or system uses recurrently, i.e. that are "used up" as intended. Wear parts in our business include, for example, screen linings, filling spouts, bucket wheels, bag guide plates. Wearing parts are excluded from the warranty because the coverage of these goods cannot be covered within the framework of a competitive calculation. Consumable goods are products that are specifically consumed by the operators of a machine or plant. These are not the traded products of the main mass flow but auxiliary products supplied, primarily serving to pack and transport the main mass flow, such as empty bags, tubular film, empty buckets, empty drums, stretch, shrink and wrapping film and empty pallets.



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- TYLER Engineered Screen Media

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IBAU for Storage and Handling

- IBAU Maintenance Kits
- IBAU Tools

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 IBAU HAMBURG

SOMMER for Mixing

- SOMMER Tools

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 SOMMER ANLAGENBAU

FEIGE for Filling

- Cans and Drums
- FEIGE Tools

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BEHN + BATES for Packing Food

- BEHN + BATES Tools

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 BEHN + BATES

HAVER & BOECKER for Packing Powder

- Bags and Films
- HAVER Tools

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NEWTEC for Palletizing and Loading

- Bags and Films
- Pallets, Interlayer

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 NEWTEC BAG PALLETIZING

HAVER & BOECKER Automation

- HAVER Tools

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 HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK CONSUMABLES



ORIGINAL PARTS



■ REPLACE WHAT NEEDS REPLACING

Our HAVER & BOECKER original parts are your guarantee: the guarantee that your system will run optimally. Do not let inferior spare parts cause unplanned downtime, a breakdown or, in the worst case, even accidents. Don't compromise; buy original parts.

DECISIVE BASICS



■ WE'RE THE EXPERTS FOR THE CRUCIAL BASICS – HAVER & BOECKER INSTITUTE

Our HAVER & BOECKER Institute is the place where we bring our packing triangle to life. Here we take such a close look at your product so that we can define the ideal machine technology on the basis of the results, and then design the packaging or screening media to fit it precisely.

HOTLINE



■ WE WON'T LEAVE YOU OUT IN THE RAIN – TAKE US AT OUR WORD

Our HAVER & BOECKER machine technology stands for the highest quality and reliability. Some of our packing lines have been in operation for over 40 years. Nevertheless: Sometimes there's a hitch somewhere. We won't leave you out in the rain! With our 24/7 hotline, we're there for you, around the clock – 365 days a year and free of charge.

Together with you, our experts will locate the fault in your system and support you in rectifying the problem. If necessary, a qualified service technician will come to your plant as quickly as possible. Reduce downtime and breakdown costs to a minimum and restore the usual plant productivity.

FOR OPTIMAL PACKAGING



■ BENEFIT FROM THE OPTIMAL PACKAGING MATERIAL

Test and record the process-relevant properties of your packaging materials with our field-tested analysis devices and find the optimum process. If the quality of a packaging material changes or you change a packaging material completely, you can easily determine the necessary adjustments to the machine parameters – for economical packaging solutions.

PROCHECK ORIGINAL PARTS



**REPLACE WHAT NEEDS REPLACING WITH
THE QUALITY YOUR PROCESS DESERVES.**

Our HAVER & BOECKER original spare parts are your guarantee: the guarantee that your system will run optimally. Do not let inferior spare parts cause unplanned downtime, a breakdown or, in the worst case, even accidents.

Don't compromise; buy original parts.



ORIGINAL PARTS – DEFINITION

Spare parts are components that replace defective or worn components. Spare parts are subject to a different calculation methodology than machinery and equipment. Only spare parts tested by HAVER & BOECKER are considered original parts.



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HAVER & BOECKER NIAGARA for Processing - NIAGARA Original Parts

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IBAU for Storage and Handling - IBAU Original Parts

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IBAU HAMBURG

SOMMER for Mixing - SOMMER Original Parts

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SOMMER ANLAGENBAU

FEIGE for Filling - FEIGE Original Parts

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Feige FILLING

AVENTUS for Packing Granules - AVENTUS Original Parts

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AVENTUS

BEHN + BATES for Packing Food - BEHN + BATES Original Parts

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NEWTEC for Palletizing and Loading - NEWTEC Original Parts

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NEWTEC BAG PALLETIZING

HAVER & BOECKER Automation - HAVER Original Parts

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HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK ORIGINAL PARTS



DIGITAL SERVICES



■ USE THE INTELLIGENCE OF YOUR SYSTEMS

Enjoy making a system work for you instead of working for your system. Networked machines are less prone to stoppages. They automatically, effortlessly and securely provide data that can signal potential maintenance issues

while enabling deep new insights into machine productivity, scrap rates and more. Use the full range of digital options for process monitoring, control, analysis and optimization.

MAINTENANCE



■ PREVENTIVE INSTEAD OF REACTIVE

Unexpected plant downtimes cause you stress, annoyance and possibly even a loss of production including high costs. You can avoid this – with regular preventive maintenance of your system.

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REBUILDS AND UPGRADES



■ PROLONG THE LIFE-TIME OF YOUR EQUIPMENT

Time does not stand still. Your process will age and it may even change. That does not mean that you need to invest into a new one. Why not simply prolong or better yet enhance the life of your equipment?



EXTEND THE SERVICE LIFE OF YOUR PLANTS BY SUPPLEMENTING CURRENT REQUIREMENTS

Time does not stand still. Your process will always have to adapt to new requirements. That does not mean that you need to invest directly in new equipment to stay competitive. Why not simply prolong the life of your current packing equipment or, better yet, optimize its functionality? There are several reasons why you should rebuild and upgrade existing machines to achieve the best possible performance from your packing machine.

REBUILDS AND UPGRADES – DEFINITION

We speak of machine conversions when we either change the character of a machine through a technical intervention, be it that functions are added or that it becomes faster, or else discontinued components are replaced and this replacement entails design changes. Machine conversions can be so serious that a complete re-commissioning may be necessary after the conversion has been completed.



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- PERFORMANCE+ rebuilds & kits

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 SILOS

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 FILLING machines

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AVENTUS for Packing Granules

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 ELEMENTRA®
 RADIMAT®

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 HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK REBUILDS AND UPGRADES



ORIGINAL PARTS



■ REPLACE WHAT NEEDS REPLACING

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DIGITAL SERVICES



■ USE THE INTELLIGENCE OF YOUR SYSTEMS

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while enabling deep new insights into machine productivity, scrap rates and more. Use the full range of digital options for process monitoring, control, analysis and optimization.

DIAGNOSTICS



■ IDENTIFY THE ROOT CAUSES

Every good doctor knows: The key to good health is not treating symptoms, but identifying the cause. Your process is no different. Don't spend an endless amount of time and energy fighting the symptoms.

Remedy the cause with our help and with smart services, software and analytical devices. Because only healthy processes are really economical.

CONSUMABLES



■ CONSUME INTELLIGENTLY

Did you know that some processes spend more money on the annual requirement of consumables, than they spent on the original one-time investment of equipment, which requires them? Consumables are the fuel for your process. You need the right material for peak performance and success. We consult, design and even provide your consumables for every step and phase of your project. Regardless of whether you are commissioning, ramping up or you simply want to optimize your process on an ongoing basis.



COMBINE YOUR EXPERIENCE WITH OURS
TO BRING YOUR PROCESS TO NEW LEVELS.

No one has more experience in operating your equipment than you do. Think about what could happen if you combined that experience with the service-quality of the people that built it? We are convinced that by working hand-in-hand as process partners, we can achieve a long-lasting high-performing process. Let us help you achieve your goals with an unparalleled line-up of services, designed with your process in mind.

SERVICES – DEFINITION

The entire range of services provided by HAVER & BOECKER to the customer, starting with consulting, engineering and classic services through to operator models and financing.



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 E-mail: v.kalthoff@haverboecker.com
 HAVER & BOECKER Maschinenfabrik

HAVER & BOECKER NIAGARA for Processing

- Services: Bearing Changes, Machine Commissioning & Installation, Vibrating Screen, Inspection, Training

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 E-mail: rmontiglio@haverandina.cl
 HAVER & BOECKER NIAGARA

IBAU for Storage and Handling

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 IBAU HAMBURG

SOMMER for Mixing

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 SOMMER ANLAGENBAU

FEIGE for Filling

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 Feige FILLING

AVENTUS for Packing Granules

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 AVENTUS

BEHN + BATES for Packing Food

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 BEHN + BATES

HAVER & BOECKER for Packing Powder

- Services: Commissioning, Assistance, Support, Health & Safety, Calibration, Documentation, Training & Consulting
 - Operation and Maintenance

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NEWTEC for Palletizing and Loading

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 NEWTEC BAG PALLETIZING

HAVER & BOECKER Automation

- Services: Commissioning, Assistance, Support, Health & Safety, Documentation, Training & Consulting

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 HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK SERVICES



CALIBRATION



■ A SMOOTH AND IMPROVING PROCESS IS CRUCIAL FOR YOUR SUCCESS

Are your bags filled to the exact weight or do you add a little extra to be on the safe side? We know you have to rely on your weighing technology. Therefore, with our manufacturer's calibration, we guarantee you a precisely defined

measuring accuracy within the permissible calibration tolerance according to legal requirements (OIML R61 or 2014/32/EU). So that you weigh according to the guidelines and don't waste your valuable product!

OPERATION & MAINTENANCE



■ IMPROVE THE PERFORMANCE OF YOUR PLANT: CONTINUOUSLY!

No one has as much experience in dealing with your investments as you do. Think about what could happen if you combined that experience with the perspective of the people that built it. We are convinced that by working hand-in-hand as process partners, we can achieve a level of performance you did not think was possible when you first invested into your plant or system.

HOTLINE



■ WE WON'T LEAVE YOU OUT IN THE RAIN – TAKE US AT OUR WORD

Our HAVER & BOECKER machine technology stands for the highest quality and reliability. Some of our packing lines have been in operation for over 40 years. Nevertheless: Sometimes there's a hitch somewhere. We won't leave you out in the rain! With our 24/7 hotline, we're there for you, around the clock – 365 days a year and free of charge.

Together with you, our experts will locate the fault in your system and support you in rectifying the problem. If necessary, a qualified service technician will come to your plant as quickly as possible. Reduce downtime and breakdown costs to a minimum and restore the usual plant productivity.

MAINTENANCE



■ PREVENTIVE INSTEAD OF REACTIVE

Unexpected plant downtimes cause you stress, annoyance and possibly even a loss of production including high costs. You can avoid this – with regular preventive maintenance of your system.

PROCHECK PLANTS AND SYSTEMS



**MAKE YOUR VISIONS AND BUSINESS GOALS
BECOME REALITY WITH UNCOMPROMISED,
HOLISTIC SOLUTIONS.**

Nothing is more important to your success than your own product and workflow. Therefore, don't compromise when it comes to your packing process: Make sure your systems and equipment are designed to meet the specifications of your products, not the other way around. Don't rely on a generalist to deliver your systems and equipment as cheaply as possible, but rather on a family of specialists to get the job done as profitably as possible.



PLANTS AND SYSTEMS – DEFINITION

A plant is a project-specific linking of systems, lines, sections, equipment and components with the aim of fulfilling a holistic task, e.g. cement plant, sugar factory, import terminal.

A system is a project-specific linking of lines, sections, equipment and components with the aim of fulfilling a clearly defined process within the framework of a plant, e.g. primary crushing, packing hall, high-bay warehouse.

A line is a combination of sections, equipment and components with the aim of fulfilling a clearly defined sub-process within the framework of a system, e.g. multi-chamber silo, packaging line.

A section is a linkage of equipment and components with the aim of fulfilling a clearly defined series of functions within the framework of a line, e.g. vertical transport, bagging, dedusting.



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HAVER & BOECKER NIAGARA for Processing
- NIAGARA Mineral Processing Plants & Systems

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HAVER & BOECKER NIAGARA

IBAU for Storage and Handling

- STORAGE and HANDLING plants
- TERMINALS
- SILO systems
- MARINE BULK CARRIERS
- BULK LOADING AND UNLOADING systems:
SHIP/TRAIN/TRUCK
- PNEUMATIC CONVEYING systems
- EPC-SERVICES

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IBAU HAMBURG

SOMMER for Mixing

- MIXING Plants
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SOMMER ANLAGENBAU

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- PACKING plants and systems

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NEWTEC for Palletizing and Loading

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NEWTEC BAG PALLETIZING

HAVER & BOECKER Automation

- DATA MANAGEMENT systems
 - PLANT AUTOMATION systems
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HAVER AUTOMATION

SOLUTIONS AND TOPICS CLOSE TO PROCHECK PLANTS AND SYSTEMS



MACHINES



■ USE THE RIGHT EQUIPMENT

In industrial processes, it is like in sports: You can only achieve peak performance if your heart function is adapted to the task at hand. The heartbeat of any process is generated by the machine technology that drives it. Do not compromise when it comes to the most important organ

of your process. Make sure that the technology you use is adapted to your product and not the other way around. The development of our technology brands is driven by precisely this conviction and by the passion to make you as successful as you want to be.

DECISIVE BASICS



■ WE'RE THE EXPERTS FOR THE CRUCIAL BASICS HAVER & BOECKER INSTITUTE

Our HAVER & BOECKER Institute is the place where we bring our packing triangle to life. Here we take such a close look at your product so that we can define the ideal machine technology on the basis of the results, and then design the packaging or screening media to fit it precisely.

PERFECT PROCESS



■ HOW WE BRING YOUR PRODUCTS INTO THE PERFECT FLOW

When it comes to industrial processing of bulk goods and liquid products, there's always one key question: How do we ensure a steady, reliable, trouble-free, clean and efficient material flow? Whether it's selecting the optimum screening media, filling or packaging your product with the perfect filling technology and the right speed in the optimum packaging, or designing and controlling your complete product and work flow – you're always looking for the perfect flow.

DIAGNOSTICS



■ IDENTIFY THE ROOT CAUSES

Every good doctor knows: The key to good health is not treating symptoms, but identifying the cause. Your process is no different. Don't spend an endless amount of time and energy fighting the symptoms.

Remedy the cause with our help and with smart services, software and analytical devices. Because only healthy processes are really economical.

PROCHECK PROCESS ENGINEERING



SHAPE YOUR CONCEPTS AND IDEAS WITH
TAILOR-MADE, EXPERIENCE-DRIVEN
ENGINEERING SERVICES .

The better the plan, the easier, faster and more profitable the execution. It has been proven, that by investing a bit more energy in the engineering stage, you can save a lot of time and money during the realization stage. We offer a complete line of Concept, Detail and Process Engineering services as well as some very specialized products.



PROCESS ENGINEERING – DEFINITION

Process-Engineering deals with all processes in which substances are changed in terms of composition, type or properties. Within production engineering, Process-Engineering deals with the production of substances (raw materials) as well as the conversion of substances with an imprecisely defined form, including classification, separation, mixing, pelletizing, bagging, filling and packaging, including the intervening stockpiling and transports. Process-Engineering is a highly interdisciplinary engineering service. In the usual scope for HAVER & BOECKER, it includes mechanical engineering, electrical engineering, electronics, pneumatics, controls, civil engineering, infrastructure, logistics and project management.



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- NIAflow

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IBAU for Storage and Handling

- PROCESS Engineering
- CONCEPT Engineering
- DETAILED Engineering

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- DETAILED Engineering

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HAVER & BOECKER for Packing Powder

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- DETAILED Engineering
- POP - Plant Optimization Plan

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SOLUTIONS AND TOPICS CLOSE TO PROCHECK PROCESS ENGINEERING



CEMENT INDUSTRY



■ INNOVATIVE SOLUTIONS FOR CEMENT MANUFACTURERS

Innovative solutions for handling your cement products: From preparation to storage and packaging to transport. Supplemented by software for digitalization and automation. Their product is the most important and best-selling building material for the development of our world.

Together with you, we are very proud of this. But we all also know that we need to be more careful with this valuable product and protect it better until it is used. So that we use resources effectively and reduce emissions.

BUILDING MATERIALS, CONSTRUCTION CHEMICALS AND MINERALS



■ INNOVATIVE SOLUTIONS FOR BUILDING MATERIALS, CONSTRUCTION CHEMICALS AND MINERALS MANUFACTURERS

Innovative solutions for handling your bulk building materials. From preparation to transport. Supplemented by software for digitalization and automation.

Your products are more heterogeneous than in almost any other industry. Each product, specifically adapted to the application, has special properties, for example particle size and shape, bulk density, flow behaviour, pourability, cohesiveness, hygroscopicity, corrosiveness or abrasiveness. In the end, this diversity is what makes you successful and guarantees satisfied customers and steady growth.

CHEMICAL INDUSTRY



■ INNOVATIVE SOLUTIONS FOR THE CHEMICAL INDUSTRY

Innovative bulk materials for handling your bulk chemicals: from packaging to transport. Supplemented by software for digitalization and automation.

Your industry is changing and is currently characterised by the major topics of "environmental protection and sustainability", "product development through specialisation", "new challenges in logistics" and "digitalisation". These megatrends give rise to very specific needs for you: high safety, cleanliness and hygiene standards, targeted and careful use of resources as well as optimised logistics that are safe in all respects. Simply perfectly coordinated processes.

HAND IN HAND



■ ON THE WAY TO YOUR PERFECT FLOW

Mastering the three dimensions of product, packaging or screening media and machine technology is the basis of our expertise and the starting point for your perfect flow.

With our PROcheck life-cycle approach, we add the time component and accompany you on the way to your goal.

TAKING THE NEXT STEP WITH PLANET BLUE

Sustainability for a livable future

Sustainability is a core value for us:

We make decisions taking into account long-term consequences for the HAVER & BOECKER family, for the entire universe of our customers and for the well-being of future generations.

We follow this fundamental approach and strive with all our technologies to improve living conditions for humanity. That's our mission!



THE TECHNOLOGY MATRIX

THE MACHINERY DIVISION – OUR TECHNOLOGIES FOR YOUR INDUSTRY						www.diemaschinenfabrik.com
OUR TECHNOLOGIES	YOUR INDUSTRY	HAVER & BOECKER CEMENT	HAVER & BOECKER BUILDING PRODUCTS AND MINERALS	HAVER & BOECKER CHEMICALS	BEHN-BATES FOOD	OUR SOLUTIONS FOR YOU
IBAU HAMBURG STORAGE + HANDLING Phone: +49 (0) 40 361309-0 E-mail: info@ibauhamburg.de						STORAGE + HANDLING <ul style="list-style-type: none"> Central cone silos Steel silos Mechanical material transport Pneumatic conveying systems Mixing plants for dry bulk products Bulk loading and unloading systems (ship, truck and train) EPC – Contracting for Complete Terminals and Plants
sommer MIXING Phone: +49 (0) 211-230 82-32 E-mail: info@sommer-anlagenbau.com						MIXING <ul style="list-style-type: none"> Dissolver mixers Triple shaft mixers Coaxial mixers Lab mixers Turnkey mixing plants for pasty and liquid products
Feige FILLING FILLING Phone: +49 (0) 4531 8909-0 E-mail: info@feige.com						FILLING <ul style="list-style-type: none"> Drum filling systems Pallet and IBC filling systems Pail filling systems Can filling systems Complete intralogistics solutions
HAVER & BOECKER PACKING Phone: +49 (0) 2522 30-0 E-mail: haver@haverboecker.com						PACKING <ul style="list-style-type: none"> Semi-automatic, automatic and high performance packing systems for powdery products using all types of valve bags, FFS bags, open mouth bags, PE bags and big bags in weights ranging from 1 kg to 2000 kg
AVENTUS PACKING Phone: +49 (0) 2581 45911118 E-mail: info@aventus.global						PACKING <ul style="list-style-type: none"> Complete packing lines for granular products using all types of FFS bags, open mouth bags and big bags in weights ranging from 25 kg to 2000 kg
NEWTec BAG PALLETIZING PALLETIZING+LOADING Phone: +33 389 633750 E-mail: info@newtecbag.com						PALLETIZING + LOADING <ul style="list-style-type: none"> Bag palletizing systems using layer deposit, automatic grippers and robot technology for overhead or on-ground feeding arrangements Automatic truck, container and train loading systems Complete end of line solutions

NIAGARA – OUR PROCESSING TECHNOLOGIES FOR YOUR INDUSTRY						www.haverniagara.com	
OUR TECHNOLOGIES	YOUR INDUSTRY	HAVER & BOECKER CEMENT AND BUILDING PRODUCTS	HAVER & BOECKER MINERALS AND AGGREGATES	HAVER & BOECKER MINING	HAVER & BOECKER CHEMICALS	BEHN-BATES FOOD	OUR SOLUTIONS FOR YOU
HAVER & BOECKER SCREENING SYSTEMS							SCREENING SYSTEMS <ul style="list-style-type: none"> Rotating, oscillating, fine screening and reject screening systems using eccentric, conical, eccles, unbalanced rotors and high-frequency drive technologies Turnkey screening plants
HAVER & BOECKER WASHING SYSTEMS							WASHING SYSTEMS <ul style="list-style-type: none"> In-line washing systems using high-pressure water jet and friction technologies Turnkey washing plants
HAVER & BOECKER PELLETIZING SYSTEMS							PELLETIZING SYSTEMS <ul style="list-style-type: none"> Intelligent packaging systems using automatic side wall height, speed and inclination adjustments Turnkey pelletizing plants
FOR ALL APPLICATIONS:		ENGINEERED SCREEN MEDIA HIGH VIBRATION WIRE SCREENS WOVEN WIRE SCREENS PARTICLE ANALYSIS					
TYLER ENGINEERED SCREEN MEDIA							ENGINEERED SCREEN MEDIA <ul style="list-style-type: none"> Polyurethane, rubber, perforated plate and specialty screen media in tensioned, modular or customized configurations Quick tensioning systems for vibrating screens
FLEXMAT HIGH VIBRATION WIRE SCREENS							HIGH VIBRATION WIRE SCREENS <ul style="list-style-type: none"> High Vibration Wire Screens lower the cost of production per ton by using wire that vibrates independently Manufactured by MAJOR, available for tensioned and modular screen decks
HAVER & BOECKER WOVEN WIRE SCREENS PARTICLE ANALYSIS							WOVEN WIRE SCREENS PARTICLE ANALYSIS <ul style="list-style-type: none"> Woven wire screen media in tensioned configurations, for tensioned frames, ultrasonic screening systems Screen Analysis, dynamic image analysis and sample divider

PERFECT FLOW

PROCESSING STORAGE MIXING FILLING PACKING PALLETIZING LOADING AUTOMATION



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