



AVENTUS
Your perfect fit

**integrated
packaging
lines**

**fitting
perfectly**

What does AVENTUS stand for?

AVENTUS sets the standard for integrated packaging lines in the bulk goods industry. We combine technological leadership with lifecycle service, thus ensuring our customers' long-term success.

AVENTUS develops, supplies, and maintains packaging lines for free-flowing bulk goods, with a scope of services customized to your specific requirements.

From form-fill-seal systems and palletizing solutions to load-securing systems, you receive tailor-made line concepts—ranging from cost-effective basic solutions to high-performance systems.

With comprehensive service throughout your system's entire lifecycle, we ensure that your packaging lines operate reliably, with high availability, and are set up for the future. Precisely tailored to your product, process, and performance requirements.

Based on our strengths in the petrochemical industry, we also offer proven solutions for other demanding sectors where efficiency, reliability, and process safety are critical. These include, in particular, fertilizers, salt, and pet food.

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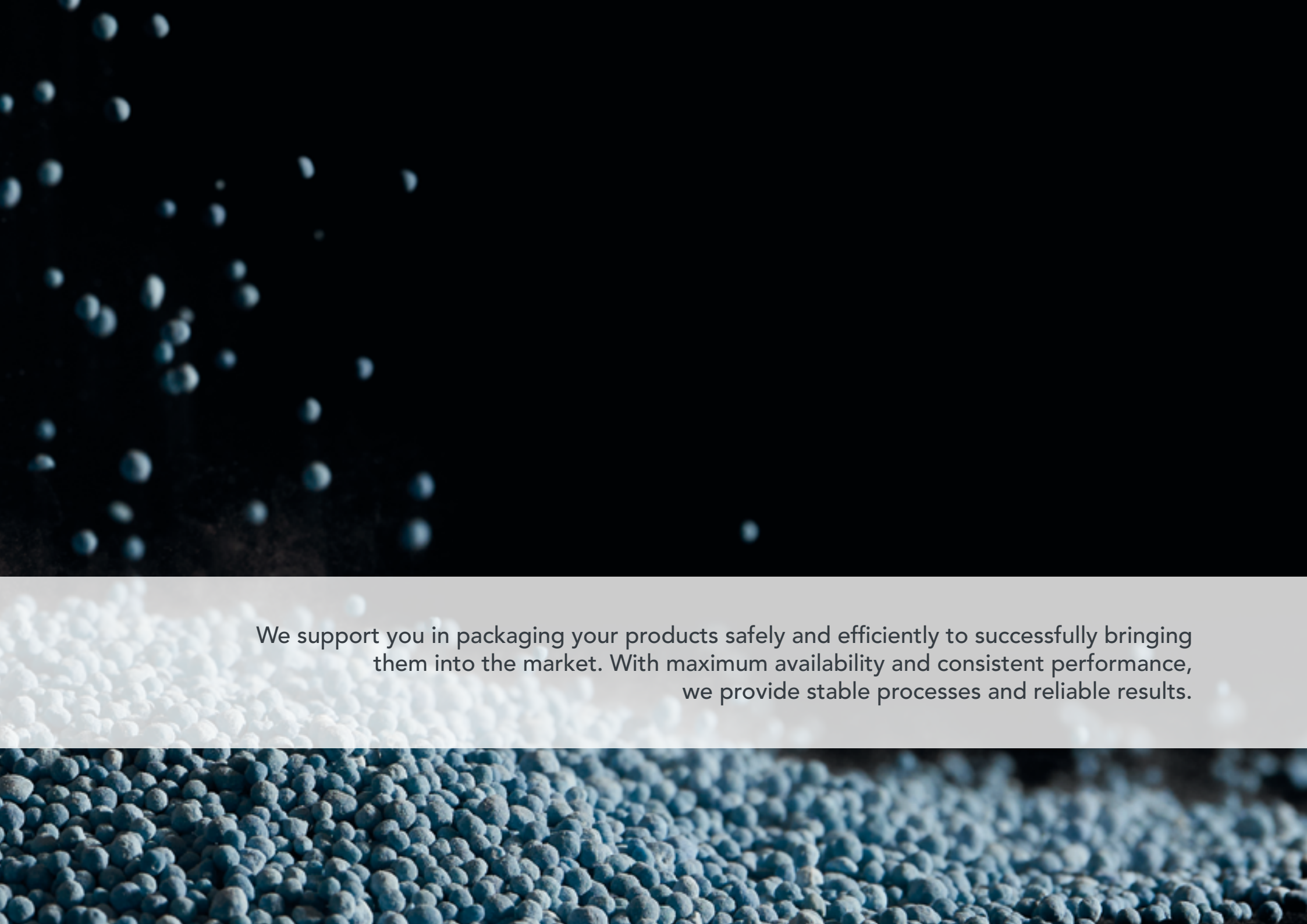
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Your markets

You are the experts in your field — we are the expert in ours: To find your perfect fit



We support you in packaging your products safely and efficiently to successfully bringing them into the market. With maximum availability and consistent performance, we provide stable processes and reliable results.

Integrated lines. Standardised control. Planned availability.

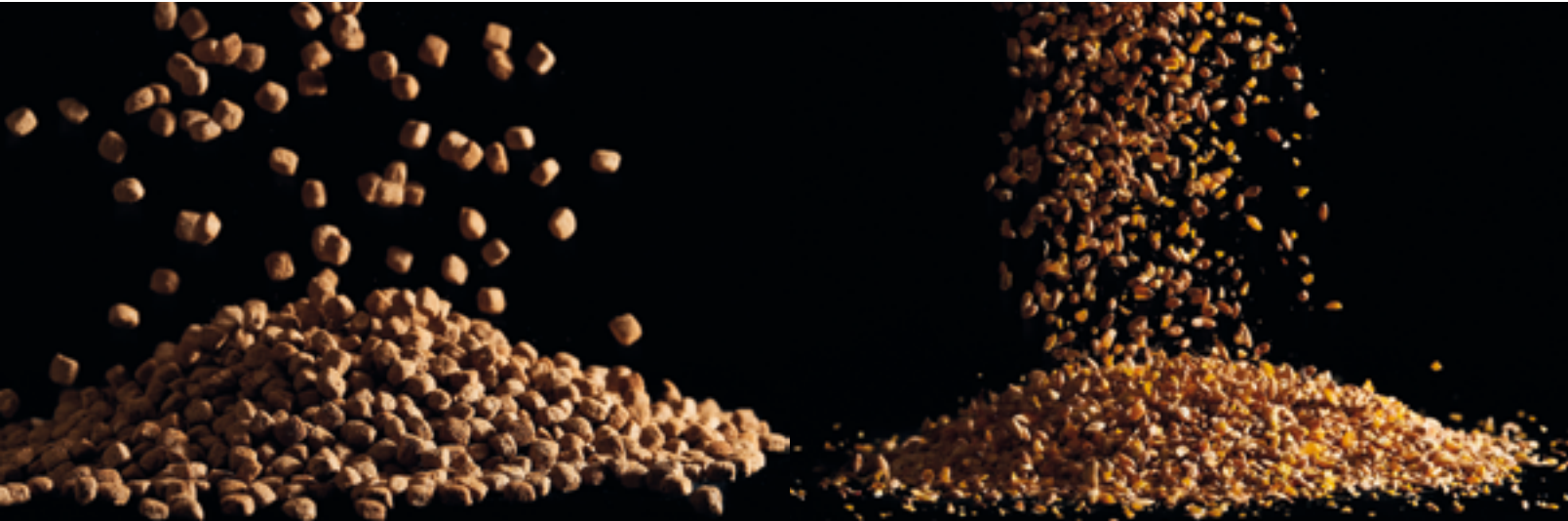


We have a deep understanding of your product and the demands of your market.

Together, we develop packaging solutions that are perfectly tailored to your bulk goods, your process, and the expectations of your end customers. We combine industry expertise with integrated automation and data analysis, along with a service concept that makes availability a predictable factor.

Our strength resides in markets where process reliability, clean handling, and dependable performance are crucial:

- Chemicals and Petrochemicals: e.g., polyolefins, engineering plastics, high-performance plastics, polyurethanes, bioplastics
- Compounds: Plastic pellet blends containing polymers or other additives; various types of modified plastics
- Fertilizers: Mineral or organic fertilizers
- Salt: crystals, grains, or tablets
- Pet food: dog and cat food, mineral supplements, grain-based feed, and horse feed



Palletizing technology as a core competency of our subsidiary NEWTEC BAG

Specialized for the following industries:

- Pet food and animal feed
- Agricultural industry: From corn and rice to seeds in a wide variety of formulations
- Wood pellets and bark mulch

Safety through product testing at our Technical Center

When product attributes or formulations present unique challenges, our Technical Center provides the necessary assurance through testing, analysis, and trials conducted under realistic conditions.

The result is a solution tailored to your needs—one that packages your products cleanly, efficiently, and with precise weight control: appealing, user-friendly, and ready for your market.





Our packaging solutions

Smart packaging lines that adapt and run smoothly.



Smarter—not harder.
Through standardized control approaches, machine networking, and a unified HMI, our lines become more efficient without compromising on operational convenience and user-friendliness. Processes remain transparent and manageable—even with increasing demands.



Fit for the future throughout the entire lifecycle.



FFS-Technology

Our core competence

www.aventus.global

PERFECT combination
of **COMPETENCE**
TEC-10

Why choose AVENTUS FFS-Technology?

- High level of product protection, good shelf life, and an attractive retail presentation thanks to tightly sealed, compact PE bags.
- Sustainable packaging through reduced usage of materials, recyclable materials, and machines designed for a long service life.
- High degree of automation, minimal operating and maintenance requirements, and maximum economic efficiency—all thanks to a powerful, reliable, and space-saving machine design.
- High user-friendliness through intuitive user guidance, a clean packaging environment, easy access, and low noise levels.
- High flexibility through the option of mobile machine designs and easy adaptation to different product and film types.

The TOPAS-Family – performance that fits your needs

AVENTUS offers scalable FFS solutions for a wide variety of performance requirements with their TOPAS range. Choose exactly the performance you need—and invest only where it benefits your process

TOPAS XL

Our high-speed solution for maximum performance and peak efficiency. Designed for demanding high-end applications and continuous operation at the highest output rates.

TOPAS L

Our balanced solution for high performance and maximum process reliability. Ideal for applications where flexibility and product diversity are just as important as consistent performance.

TOPAS M

Our cost-effective solution for lower or fluctuating output. Ideal for specialty products, smaller production volumes, or operations with frequent product changes.



Products

Microgranules, granules, pastilles, pellets, flakes, tablets



Bag type

Bags made of plastic film or composite materials (e.g., with aluminum laminates or metallized, fully recyclable films) featuring a carrying handle, a resealable closure, and perforation or ventilation systems.



Capacity

10 to 50 kg/bag

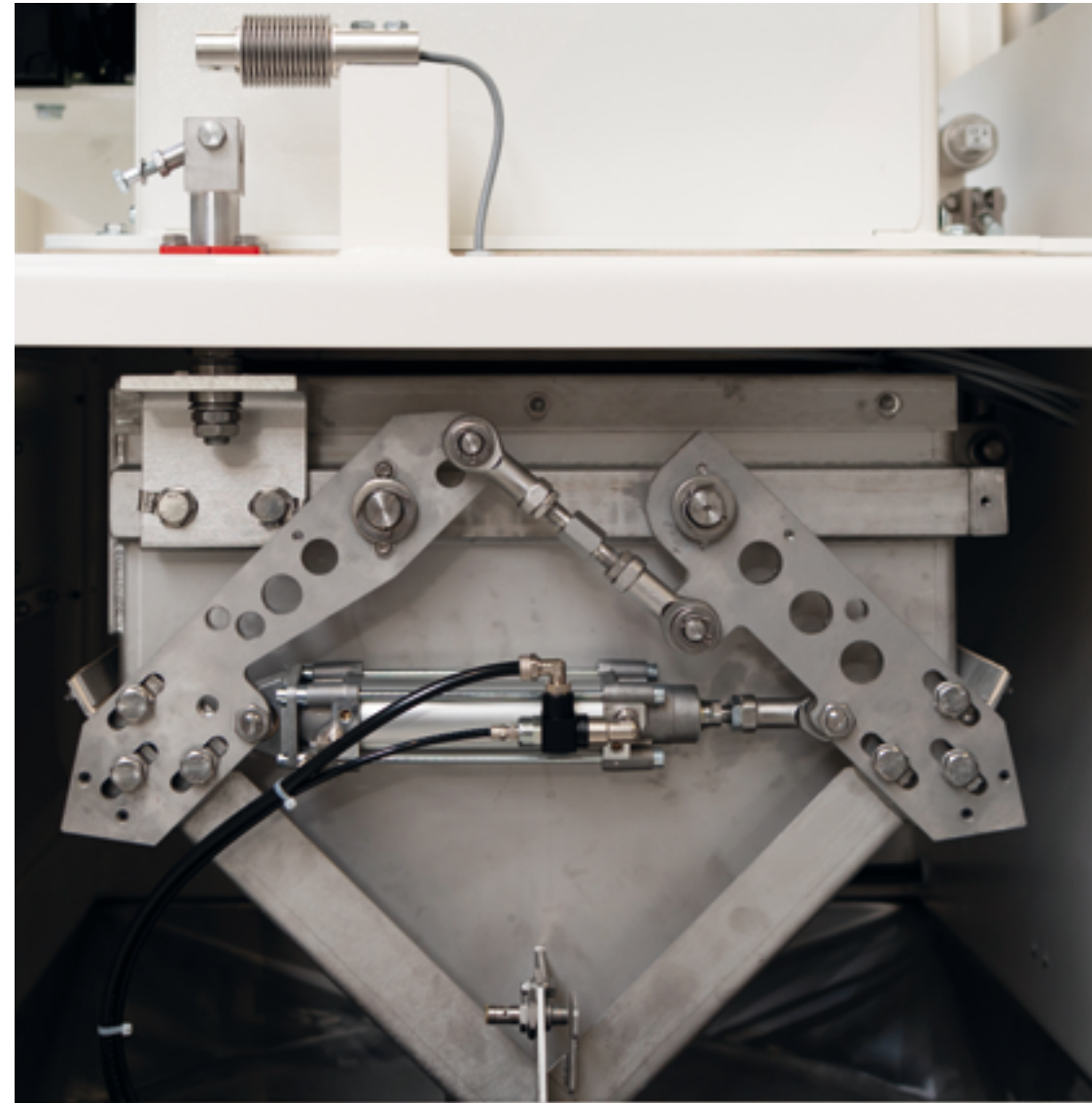


Performance

400 to 3.000 bag/h



Where speed and accuracy matter. Our net weight scale.



Weighingsystems

Pace & precision

AVENTUS Net weigher

When it comes to weighing and dosing, precision is key—without compromises in performance. Our net weigher ensures accurate weights and stable processes during high-volume operation. This prevents overfilling, guarantees product quality, and maintains consistently high packaging output.

Its sturdy, compact design, low maintenance requirements, and intuitive operating system make it a reliable solution for daily production. The weigher control system is fully integrated into the filling machine, ensuring reproducible results.

When operating manually, our net weigher also delivers precise and reliable fill rates—ideal for special products or smaller batches.

Your benefits at a glance

- Reliable product processing using product-specific dosing units
- Automatic dosing system
- Scale calibration via a single parameter using our Easy Scale
- High weighing accuracy at high performance levels
- Stainless steel finish on all parts in contact with the product
- Low-maintenance, user-friendly design
- Optional: Water rinsing for clean product transitions

Result: Precise weighing without compromising performance. Economical processes and consistent product quality.



Products

Microgranules, granules, pastilles, pellets, flakes, tablets



Bag type

Bags made of plastic film or composite materials (e.g., with aluminum laminates or metallized, fully recyclable films) featuring a carrying handle, a resealable closure, and perforation or ventilation systems.



Capacity

10 to 50 kg/bag



Performance

400 to 3.000 bag/h



AVENTUS Bulk Loading Unit. Scalable precision for challenging logistics processes.



**BigBag
& Bulk Loading Technology**

What already works perfectly on a small scale is just as convincing on a larger scale.

To meet the demands of high production rates, efficient logistics solutions, and sustainable use of resources, AVENTUS offers solutions for filling big bags and octabins, as well as precise bulk loading into trucks, railcars, or containers. Our solutions are designed to transport your products cost-effectively, safely, and sustainably.

Big Bags and octabins allow for reliable handling, optimal storage, and environmentally friendly reuse. Combined with our bulk loading solutions, they provide maximum flexibility—tailored to your plant structure and logistics processes.

Bulk Loading Units as a dosing system for your trucks, railcars, or container bulk loading

Modern silo batteries are often designed as multi-level systems: filling technology on the upper level, traffic areas on the ground floor. AVENTUS incorporates this structure and integrates bulk loading directly onto the upper level—mobile, space-saving, and without additional infrastructure. At the heart of the system is our proven net weighing technology, which enables highly precise, multi-stage filling as a dosing system. As a result, each vehicle load is filled accurately and efficiently—without detours, reweighing, or return trips. In addition, optional features such as metal detection with automatic ejection, product sampling, or digital data collection via Q-Connect can be integrated.

Your benefits at a glance

- High weighing accuracy due to precise multi-stage dosing
- High productivity for bulk loading of up to approx. 80–90 t/h (depending on the product)
- No need for additional infrastructure – saves on investment and operating costs
- Mobile, space-saving design for flexible use within the silo farm
- Standardised technology and operating approach based on the proven AVENTUS net weigher
- Deviation < 25 kg at a target weight of 25,000 kg
- Efficient, safe, and clean loading of trucks, railcars, or containers



Products

Microgranules, granules, pastilles, pellets, flakes, tablets



Sackart

Big Bags and Oktabins



Capacity

200 to 1.500 kg/bag
alternatively truck loads



Performance

Up to 30 bag/h
with gross weighing
Up to 40 bag/h
with net weighing
Up to 90 t/h
with our Bulk Loading Unit



Reliably layering. Our bag palletizers.



Palletizing

Safe & compact

To guarantee your bags arrive in perfect condition

Your bags leave production cleanly filled and in perfect shape. But on their way to your end customers, they must face some more challenges: transport, handling, and storage impose high demands on the bag's stability, sturdiness, and use of space.

AVENTUS's palletizing and load securing systems ensure that your products reliably navigate this journey. By carefully handling bags, creating precise stacking patterns, and securing loads stably, we produce pallets that stand firmly, can be stored efficiently, and arrive at the customer undamaged.

Your benefits at a glance

- Careful bag handling with a durable, low-maintenance design
- Stable and clean stack patterns where no bag moves out of place
- Customized design tailored to your bag types, sizes, and pallet formats
- Intuitive handling with smart communication and control systems
- Compact design with high technical functionality

AURUM - for up to 3.000 bag/h at 5 bags/layer

The AURUM was developed for demanding, high-volume applications and combines maximum performance with high process reliability and energy efficiency. It has proven particularly effective in the petrochemical industry, but is equally suitable for other high-performance applications.

ARCUS - for up to 2.200 bag/h at 5 bags/layer

As a high-performance solution with a top-loading design, the ARCUS processes up to 2,200 bags per hour. The palletizer ensures smooth, precise stacking and guides the bags in a synchronized and controlled manner to form stable pallet layers. Its design and motion sequences are precisely tailored to the specific process requirements.

TERRAM - for up to 1.000 bag/h

This compact, deep-feed solution is designed for capacities of up to 1,000 bags per hour and is ideal for spaces with limited floor area. Operation and maintenance can be conveniently performed from the factory floor.

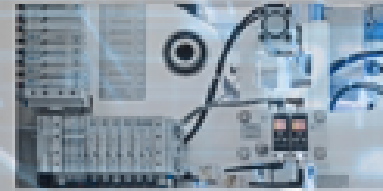
ARGON - neatly secured

A properly stacked bag is only truly protected when secured correctly. The ARGON stretch hood reliably secures your pallets with a custom-fit stretch hood for transport and storage.



The AVENTUS logo features the word "AVENTUS" in a bold, sans-serif font. The letter "V" is stylized with a red dot above it and a red line extending downwards from the top of the "V".

AVENTUS



TOPAS



Modern Data Management and Engineering

Transparency and efficiency



Modern packaging systems are highly automated. However, they only reach their full potential when their generated data is strategically processed. With our digital services, AVENTUS offers everything to get started: a powerful data and production management system that intelligently connects your machines, production lines, and locations.

Processed and analyzed information

AVENTUS

A ?

Live

Create Clone Edit layout & widgets Delete

Current Bag Speed per Hour 22. Jul 2025 10:23:09
22. Jul 2025 11:23:09



TOPAS SL (T1)

Current State of a Machine 22. Jul 2025 11:23:02

PRODUCTION

00:00:08

TOPAS SL (T1)

Current Alarms

Alarm Code	Alarm Type	Alarm Text	Point In Time
10-303	Error	Bagging machine: Intermittent draw, switch cabinet E01: Converter (B25.D01-A00) faulty	01. Jul 2025 05:51:22

TOPAS SL (T2)

Current Pallet Speed per Hour 22. Jul 2025 10:23:09
22. Jul 2025 11:23:09



PLATINUM (P1)

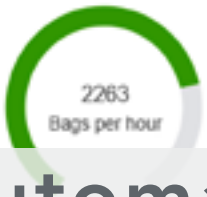
Current State of a Machine 22. Jul 2025 11:22:59

PRODUCTION

00:00:14

PLATINUM (P1)

Current Bag Speed per Hour 22. Jul 2025 10:23:09
22. Jul 2025 11:23:09



TOPAS SL (T2)

Current State of a Machine 22. Jul 2025 11:18:00

PRODUCTION

00:05:01

TOPAS SL (T2)

Current Alarms

Alarm Code	Alarm Type	Alarm Text	Point In Time
10-12	Warning	Bagging machine: Sealing: Check Teflon	22. Jul 2025 10:40:14

TOPAS SL (T1)

Current Pallet Speed per Hour 22. Jul 2025 10:23:09
22. Jul 2025 11:23:09



AURUM (P2)

Current State of a Machine 22. Jul 2025 11:18:20

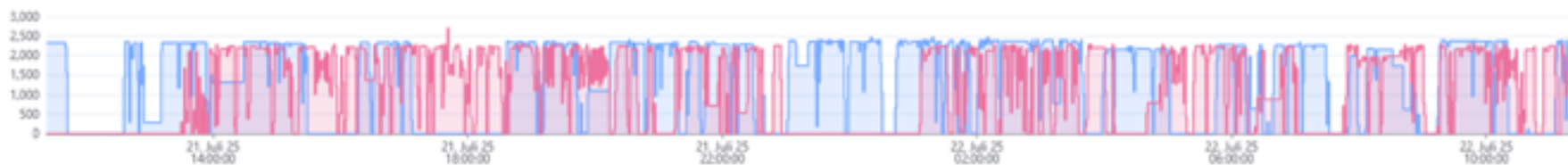
PRODUCTION

00:04:50

AURUM (P2)

21. Jul 2025 11:22:59
22. Jul 2025 11:22:59

TOPAS SL (T1) TOPAS SL (T2)



Stepline

Automation

Efficient & transparent

Making good use of your data

AVENTUS's software portfolio covers all key stages of your packaging and processing operations: from traditional weighing data acquisition to process and production control systems, all the way through to shipping and outbound automation. All solutions access a shared data pool, ensuring end-to-end transparency throughout the entire value chain.

QUAT²RO® Connect – the main analysis platform

Q-Connect is a powerful analytics platform. Machine data from individual machines, production lines, or across multiple production sites is consolidated, compared, and analyzed. Q-Connect is operated locally, and the data remains on your premises; only updates are performed via the SIEMENS Management Platform through a secure data tunnel.

Web-based applications such as Q-Dashboards and Q-Insights enable customized analyses, time comparisons, and seamless traceability across shifts, weeks, months, and years. The platform is scalable and consistently designed for future digital expansions.

With Q-Maintenance, QUAT²RO® Connect is supplemented by an intelligent maintenance module. In addition to scheduled, time-based maintenance, the system also supports condition- and data-based maintenance (predictive maintenance). Maintenance requirements are identified early, actions are triggered in a targeted manner, and unplanned downtime is sustainably reduced.

Q-Reports generates customized reports based on machine data from Q-Connect. The reports are automatically generated and sent via email to designated recipients at scheduled times—providing rapid transparency without manual effort.

QUAT²RO® Production - intelligent production management

With QUAT²RO® Production, we provide a modern production management system that comprehensively maps and controls order data for packaging and production processes. The software integrates order management, production control, and data collection into a seamless system—from planning to reporting back to the ERP.


QUAT²RO® Production has a modular design and can be precisely adapted to individual production structures and requirements. In combination with other QUAT²RO® modules, it creates a future-orientated software environment that gradually evolves your production toward a smart factory. QUAT²RO® Production stands for structured production processes, maximum transparency, and data-driven control - the foundation for efficient, stable, and sustainably optimized packaging and production facilities.





Our service

One service - excellent support. Always by your side.

A white AVENTUS service vehicle is shown in motion, with a license plate that reads 'SERVICE'. The car is moving quickly, as indicated by the blurred background. The AVENTUS logo is prominently displayed on the side of the car.

AVENTUS

For AVENTUS, reliable service is a crucial part of every packaging solution.
So we support our customers long after the system is up and running.
We're close to the process, close to the equipment, and close to the people.
Right where we need to be.

For continuous, smooth and advanced packaging operations.



Original spare parts and modernization

Always up to date!

Our experienced service teams provide on-site and remote support throughout the entire lifecycle of your machines.

Always up to date with our Performance & Retrofit Solutions

Proven technology deserves a modern upgrade. If your packaging system operates reliably but is no longer technically up to date, our performance and retrofit solutions offer the right answer. Through targeted upgrades, we bring existing systems up to the current state of the art and equip them sustainably for future requirements.

By integrating modern features and performance-enhancing upgrades, we improve productivity and process stability while ensuring the long-term availability of your machines. Our performance and retrofit solutions are available for numerous machine modules and are individually tailored to your specific requirements.

Always ready to go with our original spare parts

Reliable and trouble-free equipment operation is the foundation for high-quality processes and dependable order fulfillment. With precisely fitting original spare parts, we ensure that your equipment remains fully operational in the long term.

Our spare parts are precisely tailored to your systems, meet all technical specifications, and enable quick, safe replacement. This significantly reduces downtime and sustainably increases the overall availability of your equipment.

For added security, we support you with recommendations for targeted stocking of relevant wear and risk components. Combined with our ability to deliver quickly from our extensive spare parts stock, you remain operational at all times, even in the event of unexpected demand.

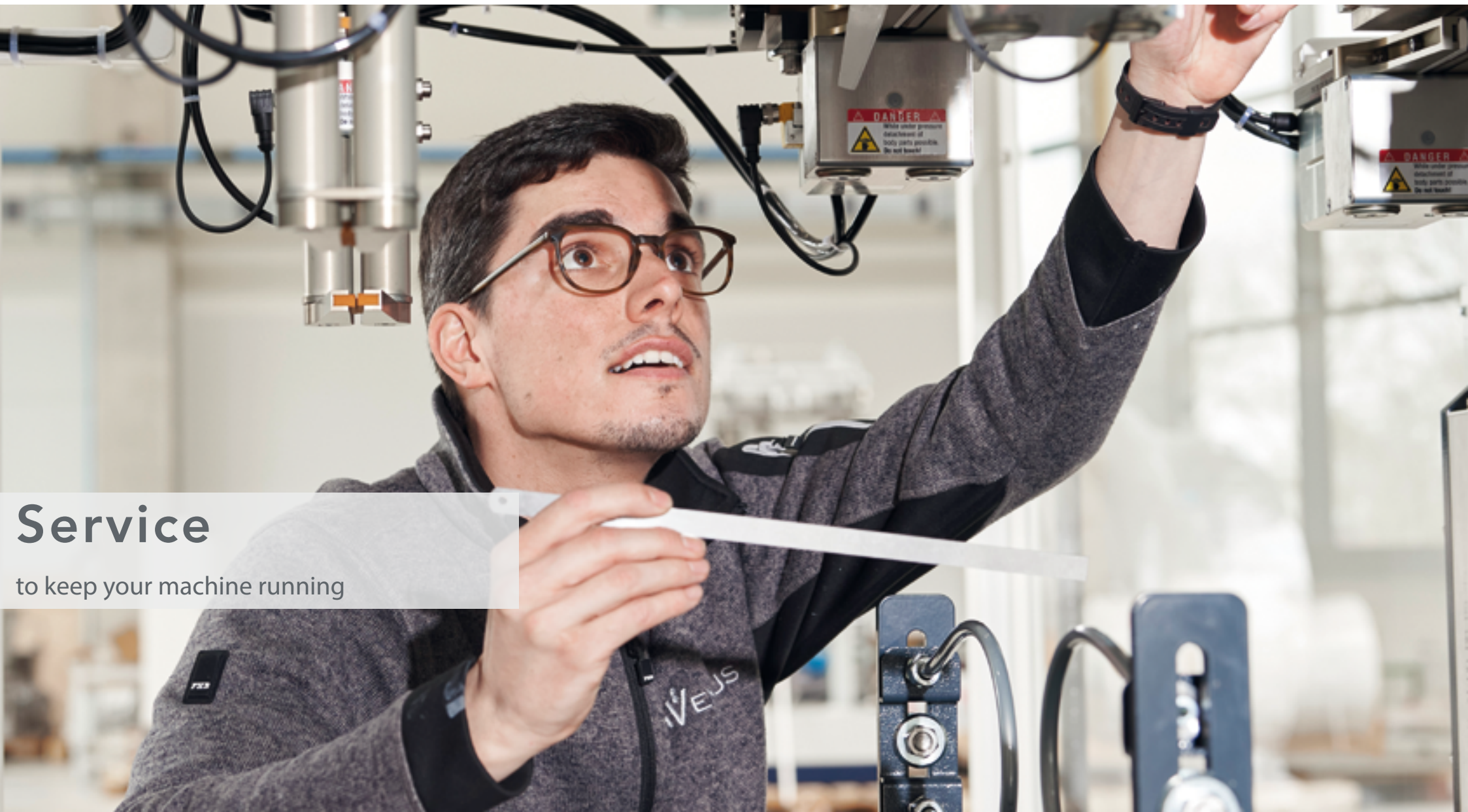
Your benefits at a glance

- Higher productivity and availability with custom-fit components and efficient retrofits
- Extended machine service life and enhanced sustainability
- Reduced capital costs and faster ROI thanks to simplified retrofits
- Efficient integration and less downtime during commissioning
- Lower operating and maintenance costs through precision-fit components and retrofits
- Less unexpected downtime because of reliable parts and high spare part availability

Information about our
Performance & Retrofit Solutions
for your existing machines.



Reliable services across the entire lifecycle.



Service

to keep your machine running

Support from the very start

A reliable packaging operation starts with a strong service concept. The availability, performance, and functionality of your system are at the very heart of it. This is exactly where AVENTUS Service comes in—close to the customer, always available, and technically skilled. Our experienced service technicians support you from installation supervision through to final commissioning. They ensure that your system is optimally tailored to your product, performance, and process. Upon request, we also provide additional services such as production support or extended assistance during the start-up phase. Together, we define the service package that best suits your needs.

Easy to reach. Ready for action worldwide.

Whether through our dedicated hotline, remote support, or in-person on-site assistance—our service team is there when you need them the most. Short response times, clear lines of responsibility, and practical solutions ensure that issues are resolved quickly to minimize downtime.

Preserve knowledge – Protect your equipment

Well-trained employees are a key factor in ensuring a stable workflow. Through training courses offered by the AVENTUS Academy—whether on-site, during commissioning, or online—we provide practical expertise in operation, maintenance, and troubleshooting. In this way, you can enhance process reliability and extend the trouble-free runtime of your machines.

Maintenance against downtime

Proper maintenance is essential for long-term equipment reliability. With scheduled maintenance plans, we support you in preventing unplanned downtime, extending the service life of your equipment, and ensuring consistently high packaging quality. You decide the timing and scope—we offer tailored maintenance packages with transparent terms.

Your benefits at a glance

- Consistent, once service support—from commissioning to ongoing operation
- High system availability thanks to prompt service calls and a reliable hotline
- Short response times thanks to a global service network and remote support
- Reduced downtime and maintenance costs through targeted maintenance
- More sustainable service calls through efficient scheduling and fewer on-site visits



AVENTUS

AVENTUS

THE  AND  COMPANY

AVENTUS stands for collaborative partnerships, technological excellence, and service that guarantees long-term availability.



Global network. Local presence.



AVENTUS

Who we are



AVENTUS is your technology and service partner for the efficient handling of free-flowing bulk materials.

We develop and implement integrated packaging and logistics solutions—from filling into FFS bags or big bags to palletizing and final packaging of the filled bags. By combining end-to-end line concepts, intelligent control technology, and comprehensive service, we create stable, predictable processes.

AVENTUS was founded in 2018 as a joint venture between the global market leaders HAVER & BOECKER and WINDMÖLLER & HÖLSCHER. As an independent subsidiary, we combine this strong industrial foundation with the focus, flexibility, and dynamism of a specialized technology company. Our mission is to deploy innovation where it brings the most benefits to our customers.

AVENTUS is based in Warendorf, Westphalia (Germany). At our approximately 10,500 m² site, we combine production, administration, and our own showroom. Here, customers can experience our packaging solutions firsthand—at a sample packaging line that brings technology and process understanding to life.

Experts in their field: our subsidiaries



With an industrial orientation and technological focus: NEWTEC BAG PALLETIZING

NEWTEC BAG PALLETIZING, based in Illzach, France (Alsace), has more than 50 years of experience in the development and manufacture of palletizers and complete packaging solutions. The company focuses on applications in the pet food and agricultural sectors, complemented by in-depth expertise in other industries.

In addition to the careful handling of a wide variety of containers, NEWTEC places particular emphasis on treating the products with care. This results in palletizing solutions that equally prioritize stability, efficiency, and product protection.



For direct local support in North America: AVENTUS North America

AVENTUS North America provides fast and reliable support to customers in North America. An experienced service team ensures fast response times from its locations in Houston and Atlanta.

A local spare parts warehouse in the U.S. ensures the prompt availability of genuine spare parts and maximizes equipment availability.

Globally connected. Locally at your service.

Thanks to our close collaboration with affiliated companies and representatives, we have a strong international sales and service network—including one in your area.





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