



PACKAGING

FLEXIBILITY IS WHEN THE PACKAGING
ADAPTS TO THE GOODS AND NOT THE
OTHER WAY AROUND.

Storopack – SPECIALIST IN PROTECTIVE PACKAGING	3
CONSULTING AND SERVICE	4
Storopack PROCESS	6
FOUR DIMENSIONS OF PACKAGING	7
PACKAGING LOGISTICS	8
Working Comfort®	10
Working Automation	11
PACKAGING SYSTEMS	12
PAPERplus®	14
PAPERbubble®	16
AIRplus®	18
FOAMplus®	20
Loose Fill	22
SUSTAINABILITY	24
CUSTOMER CASE STUDIES	26

As of: 2023

1874 Founded as a tannery

1959 Storopack Hans Reichenecker GmbH + Co. is founded; Production of technical molded parts made from Styropor®



72 locations

603 million Euros in revenue

2,300 employees



PERFECT PROTECTIVE PACKAGING

PERFECT PROTECTION MEANS BEING EQUIPPED FOR ANY SITUATION.

Storopack is a specialist in protective packaging. Our promise is to provide “Perfect Protective Packaging” to optimally protect every product while in transit. We think holistically, advising our customers on how to make the packaging process more efficient and, if desired, integrating tailored solutions. Our comprehensive range covers all of the requirements associated with optimal product protection. With 2,300 employees at certified production facilities and locations in 18 countries, we maintain a decentralized structure and are always in direct vicinity to our customers.

OUR STRENGTHS – YOUR ADVANTAGE:

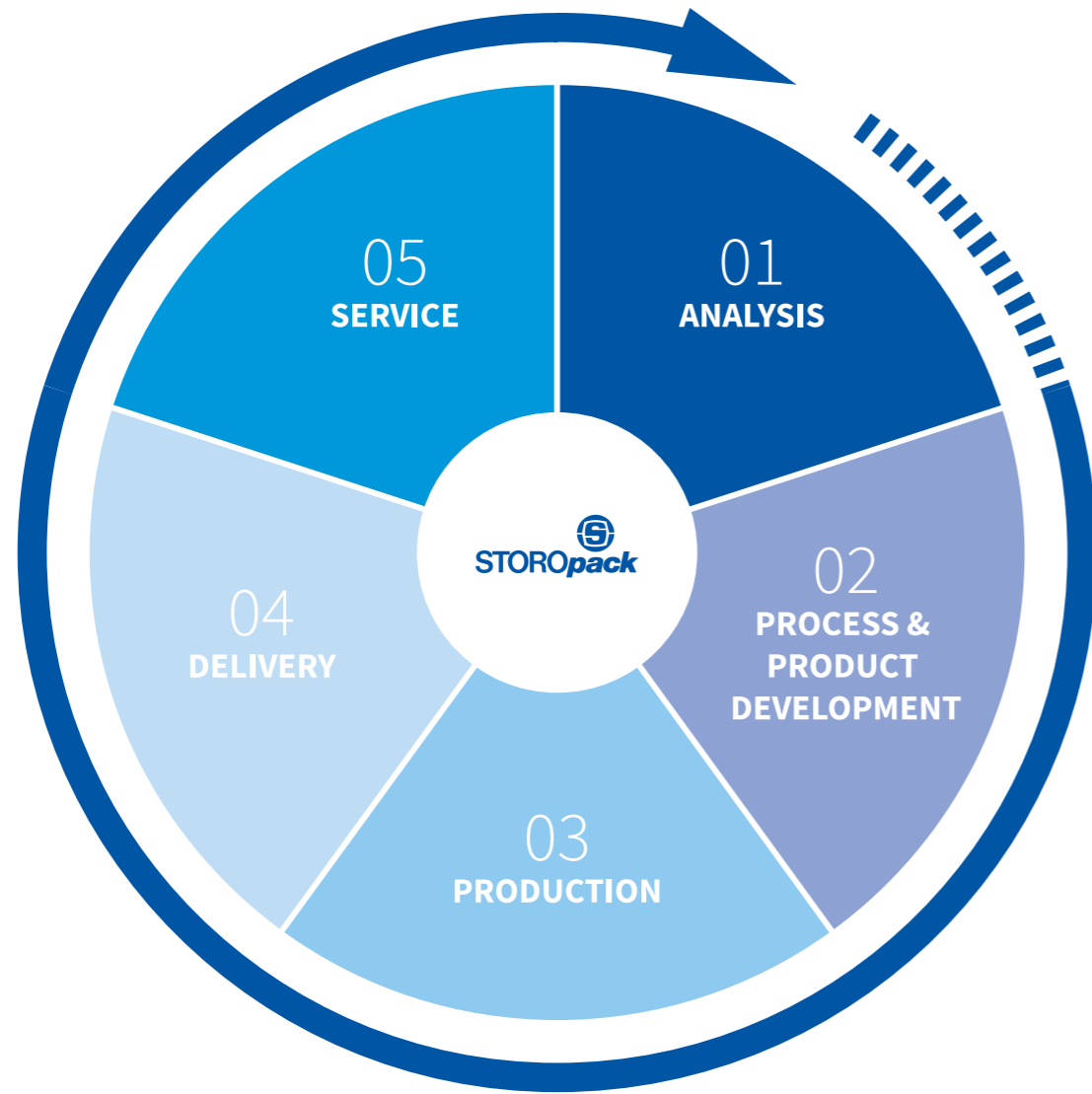
- ▶ OWNER-MANAGED FAMILY COMPANY
- ▶ LOCAL CONTACTS
- ▶ INTERNATIONAL FOCUS
- ▶ RELIABILITY
- ▶ SERVICE AND CUSTOMIZED ADVICE
- ▶ HIGH PRODUCT DIVERSITY
- ▶ CONTINUOUS IMPROVEMENT OF PACKAGING PROCESSES
- ▶ PROCESS OPTIMIZATION
- ▶ COMPLETE SOLUTIONS ALL FROM A SINGLE SOURCE
- ▶ TURN-KEY SOLUTIONS WITH AUTOMATION PROCESSES

▶ **Storopack image film:** www.storopack.com/perfect-protective-packaging



CONSULTING AND SERVICE

SERVICE MEANS
FOCUSING ON CUSTOMERS'
REQUIREMENTS.



GOOD CONSULTING MEANS DEVELOPING TAILORED SOLUTIONS.

Five steps to optimal protective packaging and ergonomic procedures – in the Storopack process, we combine comprehensive consulting, technical expertise, and innovation in order to develop the right solution for you. We analyze the existing packaging and production processes and the current cost situation. On this basis, we ensure ergonomic workflows, optimal value for money,

and protective packaging, which can be integrated into your processes with ease. We can use components of our comprehensive portfolio or customize something new just for you. Thanks to our network of sites around the world, we manufacture in close proximity to you, deliver just in time, and are personally available at all times to assist you with our technical know-how.

▶ **The optimum packing process:** www.storopack.com/optimum-packaging-process-video

WE AIM TO IMPROVE YOUR PROCESSES ON A CONTINUOUS BASIS.

A key component of our strategy to achieve perfect protective packaging is the four-dimensional model. We analyze all of the packaging steps for every Storopack process, from intralogistics to unpacking at the end customer's location.

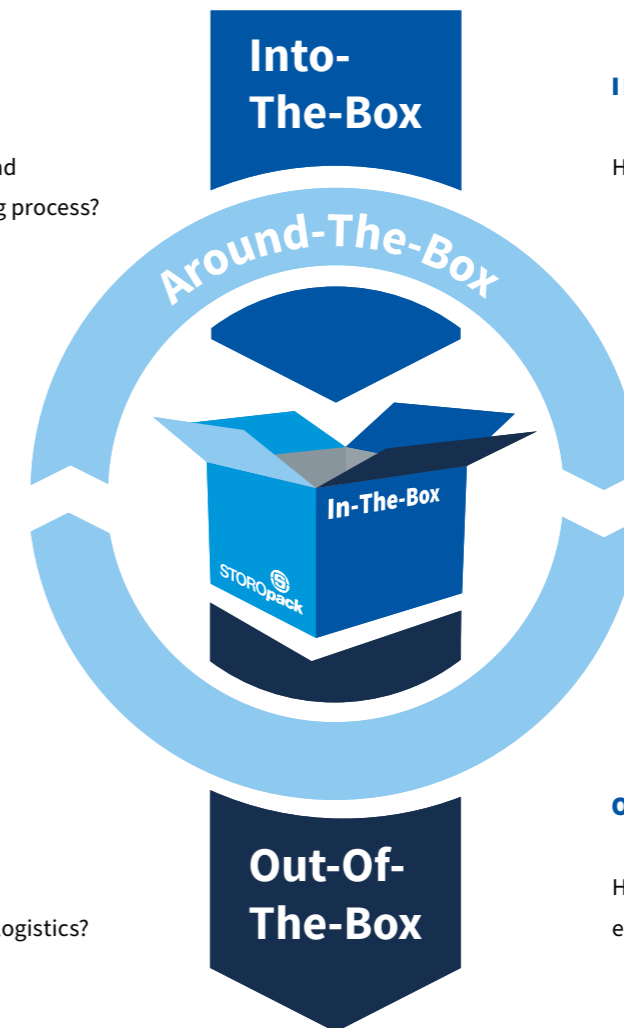
This model forms the basis for tailored protective packaging solutions as well as our efforts to optimize your packing processes.

INTO-THE-BOX

How effective, efficient and ergonomic is your packing process?

IN-THE-BOX

How well are your products protected?



AROUND-THE-BOX

How well is your packing integrated into your intralogistics?

OUT-OF-THE-BOX

How are your customers' unboxing-experiences?

PACKAGING LOGISTICS IS A MEASURURABLE BENEFIT FOR YOUR PACKAGING PROCESS.

Whether you are seeking to expand, modernize, or fully overhaul your existing packing area, Storopack is on hand with help and support. Based on your requirements, we will work with you to develop a tailored solution for maximum efficiency in your packaging process, from delivery of the picked goods through to the palletization of the shipping-ready cartons. You can choose between optimizing individual packing functions or the entire process, thereby taking the productivity of your packaging operations to a new level with Storopack.

We will review which solution offers the greatest productivity boost for each step of your process, taking into account your existing components and/or integrated modules from our portfolio.

[Packaging Logistics Video:](http://www.storopack.com/packaging-logistics-video)
www.storopack.com/packaging-logistics-video



Working Comfort®
Our solutions for ergonomically designed workstations raise the bar when it comes to manual packing. As such, the various stages of the packaging process can be handled easily and efficiently.

Working Automation
Our automated solutions allow you to benefit from an optimum material flow and free up human resources, even when parcel volumes are high.

OUR SERVICES



Working Comfort®

COMFORT.PROTECT – PERFECT PRODUCT PROTECTION WHENEVER YOU NEED IT

Ease of access and streamlined processes are of the essence when filling the shipping carton with paper cushioning, air cushions, foam packaging or packaging chips. It is imperative that the protective packaging material is always available in sufficient quantities and within easy reach. That is why we offer our Working Comfort® module COMFORT.PROTECT. The protective

packaging is provided on demand and in a space-saving way. To meet ergonomic requirements, this may be done via silo above a conveyor belt, for instance, or at an available packing station. This avoids unnecessary movements and physical strain, thereby safeguarding the health and safety of personnel in the packing area.

COMFORT.PROTECT AT A GLANCE:

- ▶ FLEXIBLE: CAN BE USED WITH PAPER CUSHIONING, AIR CUSHIONS, FOAM CUSHION PACKAGING AND PACKAGING CHIPS
- ▶ WITHIN REACH: THE PACKAGING MATERIAL IS AVAILABLE AT THE PACKING STATION ITSELF
- ▶ RELIABLE: PROTECTIVE PACKAGING IS PRODUCED ON DEMAND
- ▶ GOOD FOR HEALTH: PACKAGING PROVIDED IN A HIGHLY ERGONOMIC POSITION

COMFORT.PACK – EVERYTHING WITHIN REACH AND IN THE RIGHT PLACE

The ergonomically designed packing stations offer everything needed for the packaging process in a compact space – from cartons, consumables, and tools to brackets for hardware such as scanners and monitors. The packing stations can be easily combined with other Storopack Working Comfort® modules for an efficient process.

For comfortable
and ergonomic work:
COMFORT.PACK with integrated
protective packaging



Developed for high throughput applications:
AUTO.PROTECT solution with PAPERplus®

Working Automation

AUTO.PROTECT – AUTOMATIC RELIABLE PROTECTION

It is not always possible to eliminate voids within the carton, especially when dealing with a varied product range. As a result, goods move around during transit, which may damage both the carton and its contents. With our Working Automation module, AUTO.PROTECT, you can protect your products against these hazards.

AUTO.PROTECT automatically fills boxes with padding material, which provides reliable protection. Our experts will advise you on the optimum protective packaging and develop the module to your precise requirements and products. The result: automatic reliable protection for your shipping goods.

AUTO.PROTECT AT A GLANCE:

- ▶ INDEPENDENT: PROTECTIVE PACKAGING IS AUTOMATICALLY INSERTED TO THE BOX WITHOUT TYING UP PERSONNEL
- ▶ RELIABLE: PERFECT PRODUCT PROTECTION THANKS TO SUITABLE PROTECTIVE PACKAGING
- ▶ CUSTOMIZED: IN TERMS OF THE PROTECTIVE PACKAGING MATERIAL, FILLING METHOD, AND CARTON FORMATS

P

PACKAGING SYSTEMS

VARIETY IS OFFERING THE APPROPRIATE PROTECTION FOR EACH ITEM.





The sustainable packaging solution:
 PAPERplus® Classic, PAPERplus® Track white,
 PAPERplus® Chevron black and PAPERplus® Papillon yellow

PAPERplus® IS, RESOURCE-SAVING PACKAGING.

Whether filling voids, cushioning from impact shock or blocking and bracing goods against transport damage: Storopack's PAPERplus® paper cushioning offers all-around perfect protection for your packaged goods, whether they're small and fragile or bulky and heavy. Our product portfolio is just as diverse as the protective functions of PAPERplus®: Storopack offers a variety of paper cushioning systems that produce just the right packaging materials for every requirement and can be used individually or integrated into existing packaging processes.

They all have one thing in common: innovative shapes enable optimal cushioning and exceptional stability with limited use of materials and a lower pack weight. Storopack customers can also choose from various types of paper. And because PAPERplus® allows you to produce paper cushioning as required directly at the packing station, you can save valuable storage space, while sending your products on their way well protected.

THE BENEFITS OF PAPERplus®

- ▶ WIDE RANGE: INDIVIDUAL SOLUTIONS FROM A DIVERSE RANGE
- ▶ EFFICIENT: CREASING TECHNOLOGY FOR MAXIMUM MATERIAL UTILISATION
- ▶ RELIABLE: HIGH AVAILABILITY THROUGH PROVEN TECHNOLOGY
- ▶ ERGONOMICS: E. G. TOUCH PANELS, FOOT PEDALS AND NOISE REDUCTION
- ▶ IMAGE: PAPER HAS A FAVOURABLE IMAGE WITH END CUSTOMERS



PAPERplus® Classic²



PAPERplus® Classic CX



PAPERplus® Track



PAPERplus® Dragonfly



PAPERplus® Chevron³



PAPERplus® Papillon



PAPERplus® Shooter³

▶ [PAPERplus® product video: www.storopack.com/paperplus-video](http://www.storopack.com/paperplus-video)

PAPERbubble® IS INNOVATIVE AND SUSTAINABLE PACKAGING.

PAPERbubble® offers Storopack customers an innovative and eco-friendly alternative to traditional air bubble film. The protective packaging uses paper in combination with air to reliably protect small to medium-sized goods during shipping. It is perfect for filling voids, wrapping and cushioning products from the cosmetics and pharmaceutical industries, electronic components, and generally for safely shipping any goods sold online.

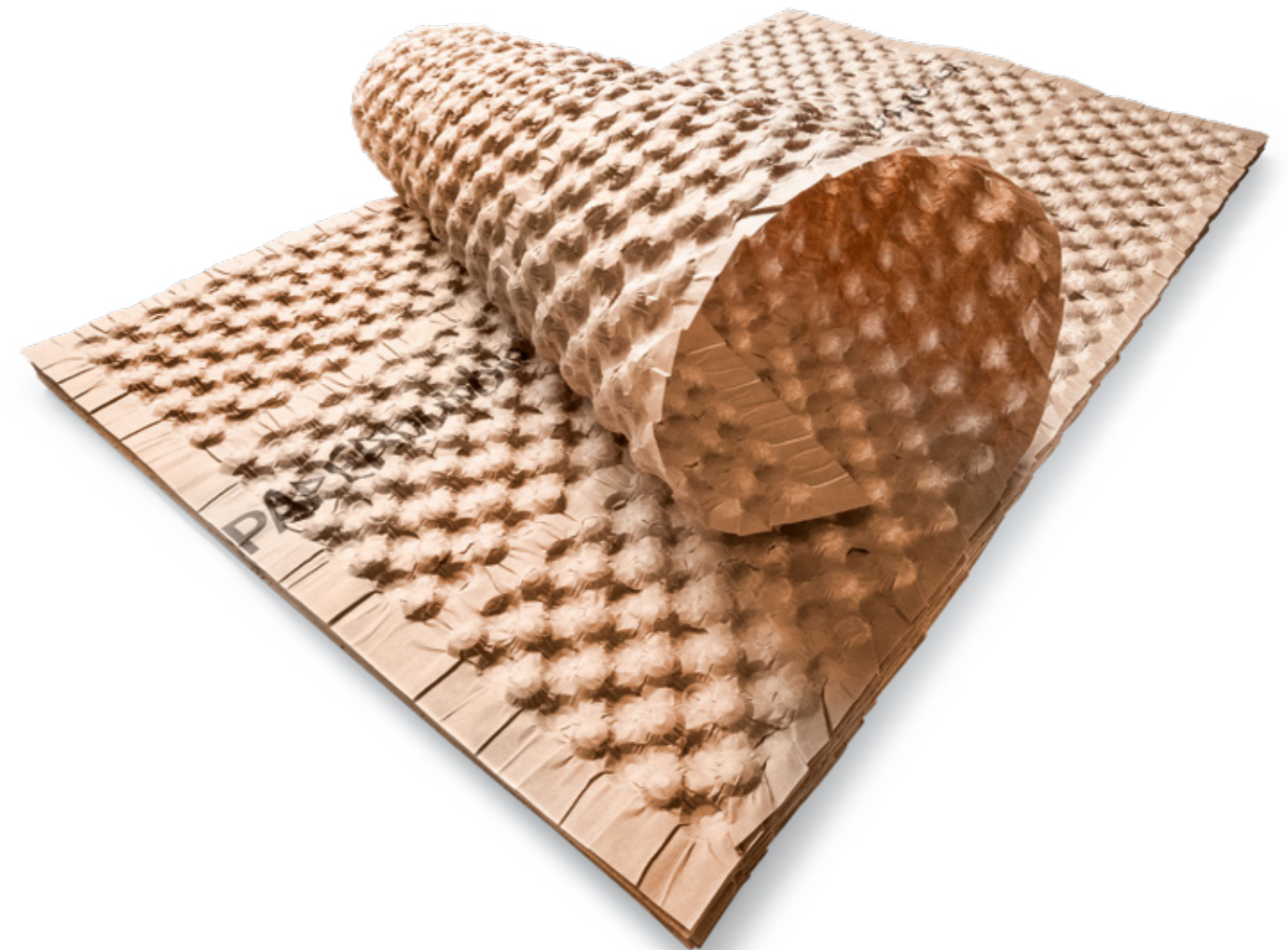
Because PAPERbubble® is 100% recyclable and made from renewable raw materials Storopack's paper sheets help reduce the use of primary raw materials and fossil resources. An added benefit is that PAPERbubble® gives products an elegant and unique appearance in the shipping carton, creating a positive and memorable unboxing experience for the end customer.

THE BENEFITS OF PAPERbubble®

- ▶ SUSTAINABLE: MADE FROM RENEWABLE RAW MATERIALS AND 100% RECYCLABLE, WHICH REDUCES THE USE OF PRIMARY RAW MATERIALS AND FOSSIL RESOURCES
- ▶ READY-TO-USE: PERFORATED PAPER SHEETS MEASURING 580 MM X 380 MM ALLOW FLEXIBILITY WHEN CHOOSING THE RIGHT AMOUNT OF PACKAGING
- ▶ ERGONOMICAL: SIMPLE AND COMFORTABLE REMOVAL OF THE PAPER CUSHIONS FROM THE BESPOKE BOX
- ▶ USER-FRIENDLY: ERGONOMIC AND USER-FRIENDLY PACKAGING UNIT
- ▶ ECONOMICAL: LOW INVESTMENT COSTS, AS PAPERbubble® DOES NOT REQUIRE A MACHINE SYSTEM
- ▶ UNIQUE: CREATES A POSITIVE AND MEMORABLE UNBOXING EXPERIENCE FOR THE END CUSTOMER



The ready-to-use solution for user-friendly packaging:
PAPERbubble® paper sheets in white or brown



▶ [PAPERbubble® product video: www.storopack.com/paperbubble-video](http://www.storopack.com/paperbubble-video)

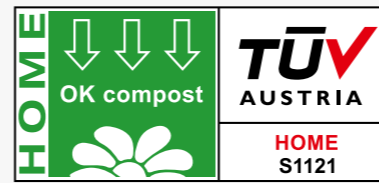
AIRplus® IS PROTECTIVE PACKAGING, LIGHT AS A FEATHER.

Storopack's air pillows are the ideal solution for effectively protecting sensitive goods in transit from vibration, filling voids, and blocking and bracing products in the carton. The extensive range accommodates a whole host of applications with the product lines AIRplus® and AIRmove®. Our air pillow systems produce cushioning on-demand directly at the packing station – as individual machines for smaller requirements or as an integrated part of an existing packaging process.

This saves valuable storage space and perfectly adapts the packing process to meet on-site needs. Our range of air cushions consists of a variety of film types and cushioning shapes, ensuring all your products are perfectly protected. All films are produced in our own production facilities, require very little raw material, and offer exceptional mechanical characteristics.

THE BENEFITS OF AIRplus®

- ▶ ENVIRONMENTAL: AIRplus® WITH UP TO 100% RECYCLED CONTENT AND AIRplus® Bio Home Compostable ARE SUSTAINABLE ALTERNATIVES TO CONVENTIONAL SOLUTIONS
- ▶ RELIABLE: CONSISTENT FILM QUALITY FROM IN-HOUSE PRODUCTION
- ▶ DIVERSE: AIR CUSHION TYPES FOR EVERY APPLICATION
- ▶ ECONOMICAL: LOW USE OF RAW MATERIALS THANKS TO MULTI-LAYER CO-EXTRUSION
- ▶ DURABLE: EXCELLENT MECHANICAL PROPERTIES
- ▶ SAVES SPACE: ON-DEMAND SYSTEM FOR MINIMAL STORAGE
- ▶ INTEGRATES: COMPACT, USER-FRIENDLY DEVICES FOR KEY PACKING AREAS
- ▶ EASY TO DISPOSE: ONE CUT AND ALL THAT REMAINS IS THE EMPTY FILM



The TÜV Austria certificate confirms that the AIRplus® Bio Home Compostable film from Storopack is home and garden compostable. It can be disposed of together with organic waste in home compost. At least 90% of the film degrades within 365 days.



AIRplus® 100% Recycled film is RecyClass certified. The certificate confirms the use of 100% recycled material in Storopack's films. The entire value chain from raw material to production and sale is assessed. The RecyClass certification is recognized throughout Europe for all EPR (Extended Producer Responsibility) systems.

The effective solution for sensitive goods:
AIRplus® Bubble Recycle, AIRplus® Wrap,
AIRplus® Cushion and AIRplus® Void 100% Recycled





The perfectly fitting solution directly at the packing station:
FOAMplus® Hand Packer² for direct dispensing and
FOAMplus® Bag Packer for tubes and bags

THE BENEFITS OF FOAMplus®

- ▶ EFFECTIVE: EXTREMELY IMPACT-RESISTANT, HIGH CUSHIONING
- ▶ SUPERIOR FOAM QUALITY: EQUAL CUSHIONING WITH UP TO 40 PERCENT LESS MATERIAL USED THAN ALTERNATIVE FOAM PACKAGING SYSTEMS
- ▶ ROBUST: EFFECTIVE FOR VERY HEAVY ARTICLES OR ITEMS WITH SHARP EDGES
- ▶ INDIVIDUAL: ADAPTS TO THE CONTOURS OF THE PRODUCT DURING HARDENING
- ▶ UNIVERSAL: PROTECTS ARTICLES OF ALMOST ALL DIMENSIONS, SHAPES AND WEIGHTS
- ▶ VERSATILE: VOID FILL, BLOCK AND BRACE OR CUSHION AS REQUIRED



FOAMplus® Bag Packer²



FOAMplus® Hand Packer²



FOAMplus® Bag Packer³

FOAMplus® IS HIGH-PRECISION PACKAGING, WITHIN SECONDS.

Storopack's FOAMplus® foam packaging is a high-quality protective packaging solution that adapts to the contours of the product and protects your goods against possible transit damage due to impact shock and vibration. Whether they're heavy, fragile or awkward shapes FOAMplus® offers the protection required for your product. Made from expanded polyurethane, the high-quality packaging foam is resistant, robust and thanks to it being light weight, reduces transport costs.

With the FOAMplus® foam dispensing systems, protective foam packaging can be produced directly at the packing

station and placed into the carton. As the foam expands it molds to the contours of the product and encapsulates it in a highly versatile packaging medium. FOAMplus® is available in a range of densities to suit a product's weight and fragility. FOAMplus®, polyurethane foam packaging is an 'on demand' packaging solution that, when the two components mix together, will expand up to 260 times their liquid volume negating the necessity for large storage area's required for pre-fabricated packaging.

Loose Fill IS RELIABLE ALL-AROUND CUSHIONING.

Storopack's Loose Fill offers safe, efficient, and versatile all-around protection for your shipping goods. It fills voids, effectively blocks and braces products inside the carton, and is exceptionally resistant to shocks and high pressure. Storopack customers can choose between packaging chips made from temperature and water-resistance EPS and from fully compostable plant starch.

All Loose Fill products are reusable, antistatic, pourable, and therefore ideal for automated packaging lines. Storopack has been producing Loose Fill itself since 1973 as one of the first suppliers in Europe.



The safe, efficient and versatile all-round protection:
PELASPAN® and PELASPAN® BIO

THE BENEFITS OF LOOSE FILL

- ▶ **ECO-FRIENDLY:** 100 % RECYCLABLE AND FOOD-SAFE, WITH A NEUTRAL IMPACT ON GROUNDWATER. LOOSE FILL MADE FROM VEGETABLE STARCH IS ALSO WATER-SOLUBLE AND HOME-COMPOSTABLE WITHOUT RESIDUE.
- ▶ **CERTIFIED:** PELASPAN® Bio IS 100% HOME AND GARDEN COMPOSTABLE (CERTIFIED IN ACCORDANCE WITH NF T51-800)
- ▶ **RELIABLE:** OUTSTANDING PROTECTION THANKS TO HIGHLY EFFECTIVE PADDING
- ▶ **FLEXIBLE:** SIMPLE TO USE AND SUITABLE FOR AUTOMATIC FILLING SYSTEMS
- ▶ **AFFORDABLE:** HIGHLY ECONOMICAL, WITH A LIGHT WEIGHT TO REDUCE TRANSPORT COSTS
- ▶ **PRACTICAL:** ANTISTATIC AND POURABLE
- ▶ **SMOOTH:** LOOSE FILL CAN BE INTEGRATED FULLY AUTOMATICALLY



PELASPAN® Bio is certified home and garden compostable in accordance with NF T51-800. This means it can be disposed of on the home compost and decomposes without toxic residues.

▶ **PELASPAN® BIO product video:** www.storopack.com/pelasp-an-bio-video



SUSTAINABILITY

SUSTAINABILITY MEANS
THINKING ABOUT TOMORROW,
TODAY.

REDUCE
REUSE
RECYCLE
RENEW



Sustainability encompasses many aspects. Whether environmental, economic, or social issues, the underlying principle is the same, i.e. to live in a way that enables future generations to have a life that is just as good as – or even better than – our own.

As a family-run company, we take these principles extremely seriously. That's why they guide our decisions and our day-to-day activities. We are conscious of our responsibilities to our employees, as well as to the environment and society.

PRODUCTS MADE FROM RENEWABLE RAW MATERIALS

New, more sustainable raw materials are a great way to protect the environment and natural resources. Therefore, our product-development experts are increasingly using suitable eco-friendly and sustainable materials for our products.

Our aim is to use as many bioplastics as possible, thus safeguarding resources while offering our customers the same outstanding packaging properties that they have come to expect from products made using conventional materials.

- ▶ PAPERplus® CLASSIC GRASS
- ▶ AIRplus® Bio Home Compostable
- ▶ PAPERplus® PAPER CUSHIONS
- ▶ PELASPAN® BIO
- ▶ PAPERbubble®



PRODUCTS MADE FROM RECYCLED RAW MATERIALS

Recycling is a continuous process when it comes to using materials as efficiently and sustainably as possible. Indeed, it is often possible to use leftover materials to make new protective packaging without compromising on vital properties.

Therefore, we already use recycled materials in a wide variety of packaging solutions – and work continuously to increase the share of these materials.

- ▶ AIRplus® 100% RECYCLED
- ▶ AIRplus® RECYCLE
- ▶ FOAMplus® 5504R
- ▶ PAPERplus® RECYCLING PAPER
- ▶ PELASPAN®



INTERNAL INITIATIVES

Acting sustainably begins long before we turn raw materials into our products. The equipment at our locations also plays a major role when it comes to protecting

resources. Therefore, we take various internal measures to optimize our carbon footprint and ensure efficient energy management.

COLLABORATIVE INITIATIVES

To boost sustainability in the use of plastics, we are involved in initiatives dedicated to combating plastic

waste such as Alliance to End Plastic Waste, CEFLEX and Operation Clean Sweep.



[More about sustainability: www.storopack.com/sustainability](http://www.storopack.com/sustainability)



Customer Case Studies

ARVATO – PAPERplus® Chevron MORE OUTPUT, LOWER COSTS

“Storopack was highly focused on the objective throughout the entire development process and worked with us to produce a packaging solution that meets our needs to our complete satisfaction.”

MARCUS ENGEL,
OPERATIONS MANAGER



Mail-order pharmacies deliver medication quickly and directly to customers' homes. One such company is BS Apotheken OHG, based in the Lower Saxony town of Bad Laer in Germany. BS Apotheken OHG required an efficient protective packaging solution to enable it to dispatch orders of medical and cosmetic products to a total of around 1.6 million customers. In conjunction with BS Apotheken OHG and the external operator of the logistics center, arvato, Storopack developed an individual solution: PAPERplus® Chevron padding is produced fully automatically and the machine is integrated by means of a driven roller conveyor system. When paper padding is required to secure a packaged product firmly in place, PAPERplus® Chevron produces it directly in the box. The box is then sealed and labelled.

With the fully automated packaging line the packages are quickly ready for shipping and the medical and cosmetic products are perfectly padded and secured in place within the box. Packaging performance is between 10 and 12 boxes per minute. Thanks to full automation the packaging process runs continuously without any breaks, allowing approximately 10,000 boxes to leave the logistics center daily.

▶ **Video:** www.storopack.com/arvato



The company Esterline Connection Technologies – SOURIAU – SUNBANK in France designs, manufactures and markets interconnection solutions for severe environments. With an integrated distribution line consisting of four height-adjustable SMARTline packing stations and a strapping machine a maximum of 700 packages a day are shipped. The packaging material – AIRplus® Void air pillows – is stored in a central silo that makes it easily accessible for all packers.

▶ **Video:** www.storopack.com/souriau-video



Customer Case Studies

SOURIAU – AIRplus® 40 PERCENT MORE PRODUCTIVE





If you would like to obtain additional information or speak to us directly, please feel free to get in touch with us. At Storopack we are happy to help.

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