



PACKAGING

**FOAMplus®** IS  
HIGH-PRECISION PACKAGING,  
LIGHT AS A FEATHER.

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**1874**

Founded as a tannery

**1959**

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

As of: 2023

**72** locations

**2,300** employees

**603** million Euro in revenue

## 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](http://www.storopack.com/perfect-protective-packaging)



## FOAMplus® IS HIGH-PRECISION PACKAGING, LIGHT AS A FEATHER.

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 areas required for pre-fabricated packaging.

### THE BENEFITS OF FOAMplus®

- ▶ EFFECTIVE: EXTREMELY IMPACT-RESISTANT, HIGH CUSHIONING
- ▶ SUPERIOR FOAM QUALITY: EQUAL CUSHIONING WITH LESS MATERIAL USED THAN ALTERNATIVE FOAM PACKAGING SYSTEMS
- ▶ SOURCE REDUCTION: HIGH YIELD RESULTS IN REDUCED OVERALL HANDLING
- ▶ ROBUST: EFFECTIVE FOR VERY HEAVY ARTICLES OR ITEMS WITH SHARP EDGES
- ▶ VERSATILE: ADAPTS TO THE CONTOURS OF THE PRODUCT DURING HARDENING
- ▶ UNIVERSAL: PROTECTS PRODUCTS OF ALMOST ALL DIMENSIONS, SHAPES AND WEIGHTS
- ▶ PROTECTIVE: VOID FILL, BLOCK AND BRACE OR CUSHION AS REQUIRED
- ▶ SPACE SAVING: ON-DEMAND SYSTEMS FOR MINIMUM STORAGE
- ▶ TAILORED CONSULTING: STOROPACK'S EXPERTS ANALYZE YOUR PROCESSES AND PROVIDE A CUSTOMIZED SOLUTION FOR YOUR SPECIFIC REQUIREMENTS

FOAMplus® Foam-in-Bag



FOAMplus® Tubes



FOAMplus® Foam-in-Place



FOAMplus® Pre Mold



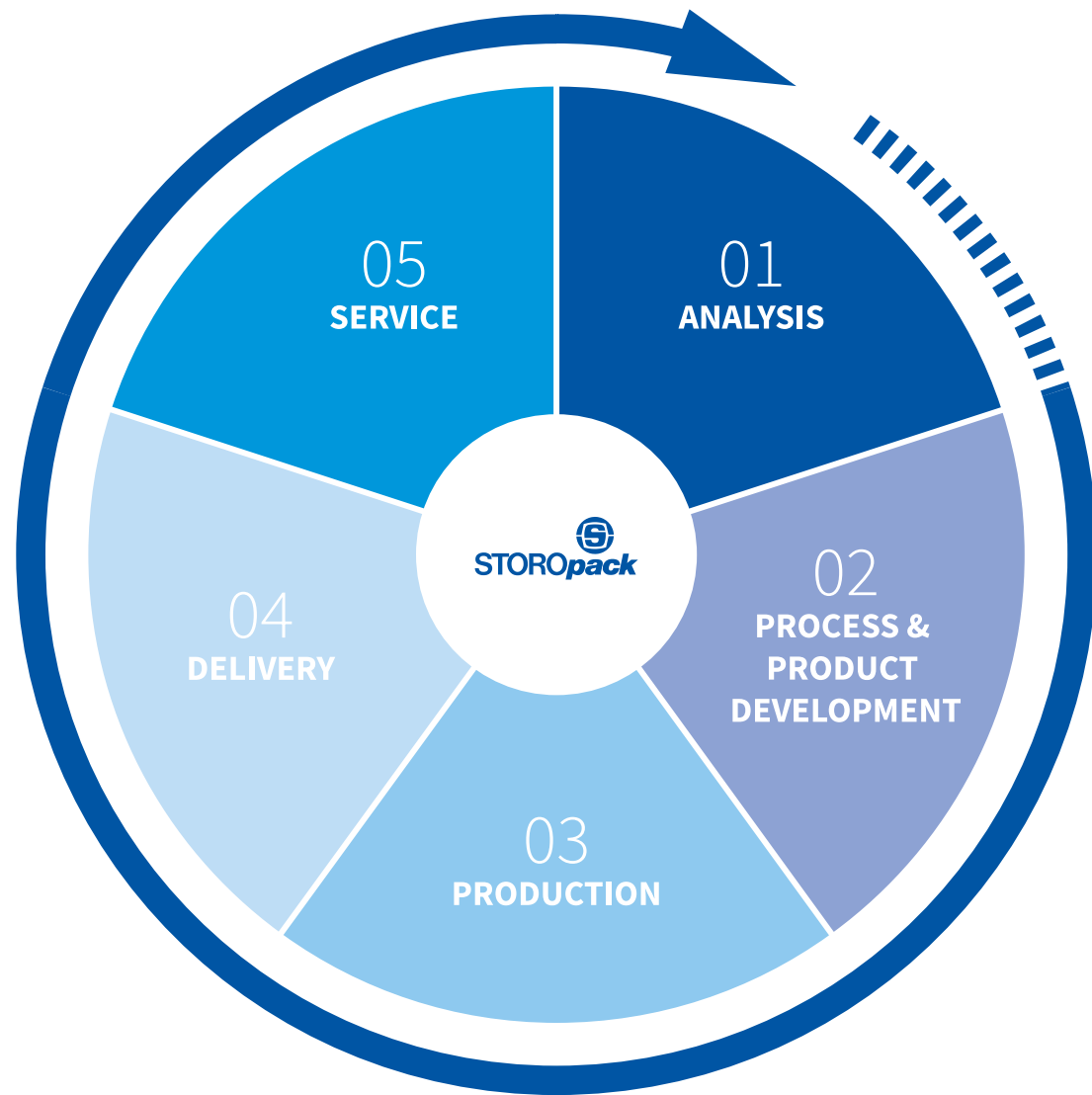




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CONSULTING AND SERVICE

**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](http://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.

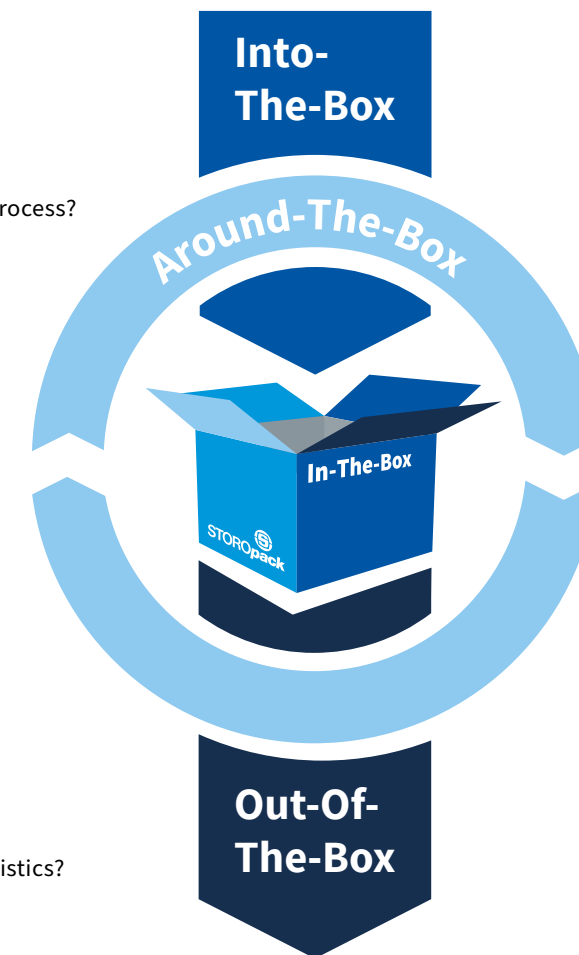
This model forms the basis for tailored protective packaging solutions as well as our efforts to optimize your packing processes.

**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?



# P

PACKAGING SYSTEMS AND APPLICATIONS

**VARIETY** IS  
OFFERING THE APPROPRIATE  
PROTECTION FOR EACH ITEM.



# THE FOAMplus® Bag Packer SYSTEMS OFFER FOAM PADDING AT THE TOUCH OF A BUTTON.

The FOAMplus® Bag Packer systems produce foam packaging bags at the touch of a button, which adapt specifically to the contours of the packaged goods. Thanks to the proven foam-in-bag system, film bags can be filled with foam automatically through regular batch production or individually, directly at the packing station. When a bag is produced the expanding polyurethane foam pad will quickly mold itself around any product shape in seconds,

and affords the highest degree of protection against shock, vibration and compaction. A robust solution for goods in transit and storage that ensures products arrive in perfect condition. Thanks to its low weight, it also reduces transport costs whether it's fragile ceramics, heavy automotive parts, or calibrated pumps and valves.



Suitable for cushioning and block & brace applications:  
FOAMplus® packaging bags and tubes



## THE BENEFITS OF THE FOAMplus® BagPacker³

- ▶ ALL-ELECTRIC OPERATION
- ▶ FASTEST FOAM-IN-BAG MACHINE WITH 24 BAGS PER MINUTE (12" LONG, 50% FILLED)
- ▶ ADVANCED FILM SEALING TECHNOLOGY ENSURES SIGNIFICANTLY FASTER WORKFLOWS
- ▶ CAPABILITY OF PROCESSING 19" TO UP TO 24" WIDE FILM
- ▶ PRODUCES CONTINUOUS FOAM PACKAGING TUBES WITH A MINIMUM DIAMETER OF 1.5"
- ▶ THE INTUITIVE 10" TOUCH DISPLAY OFFERS FREELY PROGRAMMABLE OR PRESET FOAM BAG SIZES
- ▶ PACKAGING INSTRUCTIONS CAN BE STORED WITH IMAGES AND RETRIEVED BY BARCODE OR THROUGH THE EASY LOAD FUNCTION
- ▶ NETWORK CONNECTION TO ENABLE REMOTE SERVICE AND SYSTEM MONITORING
- ▶ CAN BE EASILY INTEGRATED INTO EXISTING PACKAGING PROCESSES

## THE BENEFITS OF THE FOAMplus® BagPacker²

- ▶ HYDRAULIC OPERATION
- ▶ PROCESSES FILM WIDTHS FROM 19" TO 24"
- ▶ PRODUCES CONTINUOUS FOAM PACKAGING TUBES WITH A MINIMUM DIAMETER OF 4.7"
- ▶ INTUITIVE 10" TOUCH DISPLAY OFFERS FREELY PROGRAMMABLE OR PRESET FOAM BAG SIZES
- ▶ PACKAGING INSTRUCTIONS CAN BE STORED WITH IMAGES AND RETRIEVED BY BARCODE OR THROUGH THE EASY LOAD FUNCTION
- ▶ CAN BE EASILY INTEGRATED INTO EXISTING PACKAGING PROCESSES



▶ **FOAMplus® Bag Packer² product video:**  
[www.storopack.com/bag-packer2-video](http://www.storopack.com/bag-packer2-video)



1



2



3



4



The ideal solution for large and heavy products with challenging contours: FOAMplus® Hand Packer for direct application

## FOAMplus® Hand Packer IS CUSTOMIZED PROTECTION FOR COMPLEX PRODUCTS.

FOAMplus® Hand Packer is the ideal solution for special challenges, including those posed by bulky and heavy packaged goods as well as products with complex contours. The handy foam dispenser allows you to accurately fill the carton with foam packaging in mere seconds – for customized cushioning and blocking and bracing resulting in the perfect transport of packaged goods.

Foam pre-molded cushions can also be conveniently formed in advance with FOAMplus® Hand Packer. The microprocessor-controlled foam packaging system is extremely efficient, requires minimal maintenance thanks to the self-cleaning mixing chamber, and ensures seamless, cost-effective foam production with consistently high quality.

### THE BENEFITS OF THE FOAMplus® Hand Packer²

- ▶ QUIET: NO-NOISE OPERATION
- ▶ USER FRIENDLY: BAR CODING PACKAGING INSTRUCTION ON AN INTUITIVE 7" TOUCH SCREEN CONTROL PANEL; ERGONOMIC AND LIGHT HAND-HELD FOAM DISPENSER
- ▶ FORWARD-LOOKING: NETWORK CONNECTION TO ENABLE REMOTE SERVICE AND SYSTEM MONITORING
- ▶ VARIABLE: WALL-MOUNTED AND STAND VERSION SYSTEM AVAILABLE
- ▶ INTEGRATABLE: CAN EASILY BE INTEGRATED INTO EXISTING PACKING PROCESSES
- ▶ SPACE-SAVING: ON-DEMAND PRODUCTION OF FOAM PADS SAVES STORAGE SPACE

### FOAMplus® FOR DIRECT INJECTION

- ▶ IDEAL FOR PARTICULARLY LARGE OR HEAVY ITEMS WITH COMPLEX SHAPES
- ▶ FOAM IS MANUALLY INJECTED DIRECTLY INTO THE BOX



FOAMplus® Hand Packer² Stand Version





Efficient packaging for high throughput applications:  
FOAMplus® Remote Batcher System with FOAMplus® Bag Packer<sup>2</sup>

## FOAMplus® Premold IS MOLDED AND PREFORMED PROTECTIVE PACKAGING READILY AVAILABLE.

FOAMplus® Premold Cushions from Storopack offer a sound choice over other types of preformed protective packaging or cushioning materials. With our efficient, cost-saving mold design and creation process, secure custom fit product protection, and the prospect of faster, easier packing, you benefit from multiple

improvements to your packaging process. If space is a challenge, Storopack offers just-in-time delivery of the pre-molded cushions ready for use. Only order what you need and standardize your entire packaging work flow.

### THE BENEFITS OF FOAMplus® PREMOLD

- ▶ SOURCE REDUCTION: HIGH YIELD RESULTS IN REDUCED OVERALL HANDLING
- ▶ ACCURATE: PACKAGING FOAM IS PRECISELY MOLDED INTO THE SHAPE OF THE REQUIRED FOAM PADDING
- ▶ EFFICIENT: IDEAL FOR PROTECTING A LARGE QUANTITY OF THE SAME PRODUCT
- ▶ READILY AVAILABLE: PRE-PRODUCE THE REQUIRED QUANTITY OF FOAM PADDING AT ANY TIME
- ▶ JUST-IN-TIME: PROVIDES HIGH-QUALITY CUSHIONING WITHOUT EQUIPMENT
- ▶ TESTED: DESIGNED TO MEET ISTA REQUIREMENTS

## THE REMOTE BATCHER SYSTEM OFFERS AN IDEAL SOLUTION FOR THE STORAGE OF FOAMplus® COMPONENTS.

The Remote Batcher System for FOAMplus® packaging systems is ideal for companies with a high throughput that are looking to increase packaging efficiency. The innovative system allows for one or more FOAMplus® machines to be connected to one set of totes via remotely placed pumps. The separately placed pumps don't have to be moved when

changing totes thus offering an ergonomic solution and increasing working safety according to Storopack's Working Comfort® principles. Furthermore, the Remote Batcher System decreases tote transfer time and reduces the packaging area footprint.

### THE BENEFITS OF THE FOAMplus® REMOTE BATCHER SYSTEM

- ▶ FLEXIBLE AND COMPACT: CAN BE INSTALLED WITH ONE OR MORE FOAMplus® PACKAGING SYSTEMS FOR A COST AND SPACE EFFECTIVE SOLUTION
- ▶ COMPATIBLE: WORKS WITH THE FOAMplus® Bag Packer SYSTEMS OR THE FOAMplus® Hand Packer<sup>2</sup>
- ▶ EFFICIENT: THE SYSTEM UTILIZES GRAVITY TO PULL CHEMICALS TO THE BOTTOM OF EACH TOTE, ENSURING 100% OF BOTH COMPONENTS ARE USED
- ▶ ERGONOMIC: PUMPS DON'T NEED TO BE MOVED AS THEY WILL PERMANENTLY STAND IN THE REMOTE BATCHER SYSTEM
- ▶ FAST: SYSTEM CAN QUICKLY BE DISCONNECTED FROM THE BOTTOM OF EACH TOTE, ALLOWING FOR A FASTER TRANSFER



The fast solution for molded protective packaging:  
FOAMplus® Premold



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 peanuts. 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. 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 PEANUTS
- ▶ 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 COMFORT.PROTECT  
FOAMplus® solution

PERFECT PROTECTIVE PACKAGING



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

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 cushioning 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





FOAMplus® FILM TYPES AND FOAMS

FOAMplus® IS  
AS VARIABLE AS ITS APPLICATION.



# FOAMplus® FOAMS AND FILM TYPES

## PROTECT ARTICLES OF VARIOUS DIMENSIONS, SHAPES AND WEIGHTS.

All FOAMplus® machines produce foam padding based on the same principle: the device mixes two liquid components to produce (H)CFC-free polyurethane which expands and hardens in a matter of seconds. The types of foam vary in terms of density, firmness and padding effect. With a variety

of densities FOAMplus® provides a solution for almost any application. FOAMplus® 5504 foam has a much lower density than other foams on the market but is lightweight and extra strong. The foam reduces the costs of protective packaging and shipping and saves on resources.

### AVAILABLE DRUMS AND CONTAINERS:

#### FOAMplus® METAL DRUMS AND CONTAINERS

- ▶ TWO DIFFERENT SIZES OF PLASTIC CONTAINERS AVAILABLE: 15 AND 275 GALLONS
- ▶ ONE SIZE OF STEEL DRUM OFFERED: 55 GALLONS
- ▶ FOAM IS PRODUCED USING COMPONENTS A AND B



The ideal solution for any demand:  
FOAMplus® metal drums and containers

Storopack FOAMplus® films guarantee a consistently high product quality. The films are available in various widths with up to 48" to accommodate even larger applications.

### AVAILABLE FILM TYPES:

#### FOAMplus® STANDARD FILM

- ▶ HEAVY-DUTY FILM QUALITY FOR EXTRA DURABILITY AND RELIABILITY
- ▶ AVAILABLE IN 19" AND 24" ROLL WIDTH, GUSSETED OR CENTERFOLD
- ▶ 36" AND 48" CENTERFOLD FILMS AVAILABLE FOR ALL HANDHELD SYSTEMS

#### FOAMplus® ESD FILM

- ▶ ANTISTATIC FOAMplus® FILM, MEETS THE REQUIREMENTS FOR ELECTROSTATIC DISSIPATIVE MATERIALS



The safe and durable option:  
FOAMplus® films





## 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.

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.

### REDUCE

- ▶ FOAMplus® FOAM PACKAGING AND THE CORRESPONDING PRODUCTION PROCESS IS DESIGNED TO REDUCE THE USE OF NATURAL RESOURCES.
- ▶ SUPERIOR CUSHIONING PERFORMANCE OF FOAMplus® REDUCES THE BOX SIZE NEEDED TO PROTECT YOUR PRODUCTS
- ▶ DURING TRANSPORT, THE LIGHTWEIGHT PACKAGING ALSO HELPS REDUCE FUEL CONSUMPTION.

### REUSE

- ▶ FOAMplus® FOAM PACKAGING CAN BE REUSED FOR MULTIPLE SHIPMENTS OF THE SAME PRODUCTS.

### RECYCLE

- ▶ POST-CONSUMER OR PRODUCTION WASTE FROM FOAMplus® FOAM PACKAGING CAN REPLACE PRIMARY RAW MATERIALS.
- ▶ AS PART OF THE GENERAL WASTE STREAM, FOAMplus® FOAM IS AN EXCELLENT SOURCE OF FUEL FOR THERMAL RECYCLING THUS GENERATING ENERGY FROM WASTE MATERIALS.



### 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.

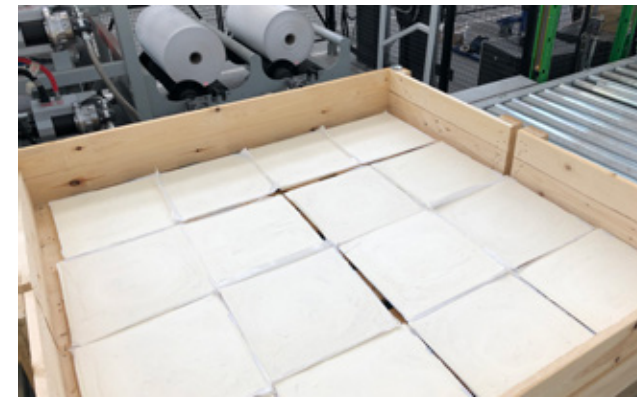


 **More about Sustainability:** [www.storopack.us/sustainability](http://www.storopack.us/sustainability)



Customer Case Studies

# FOAMplus® 10,000 PACKAGES PER DAY



The FOAMplus® Pad Molder packaging system fully automatically produces up to 24 foam packaging cushions a minute, making it ideal for packing lines with a high throughput: the system enables just-in-time production and eliminates the need to store packaging material. Measuring 15.7 × 15.7 × 0.7 inches, the pads offer perfect protection for fragile goods, including shipping goods made from glass or ceramic, whether in containers or on pallets. The FOAMplus® Pad Molder system delivers on everything customers expect of an efficient protective packaging system for sensitive shipping goods: high throughput, fully automatic processes, simple operation, space savings, and optimal product protection are convincing arguments for investing in Storopack's new foam packaging system.

An efficient packaging process and perfectly protected products – those were the requirements of a leading provider of workshop supplies, assembly and fastening products for trade and industry. The wide range of products and therefore also the contents of individual shipments handled by the major retailer meant that it was possible for fragile items and heavy items to be packed together in the same box. So products had their own packaging protection requirements when it came to holding them in place and securing them in the box. FOAMplus® foam padding in the form of foam-filled bags meets the requirements perfectly. The bags block and brace all the items in the package and also provide optimum padding for heavy products and increase the compression strength of the box. 15 Bag Packer<sup>2</sup> systems fill the bags quickly and cleanly, simply at the press of a button.



Customer Case Studies

## FOAMplus® FULLY AUTOMATIC

“Thanks to this system, we have been able to avoid stocking high volumes of packaging material; additionally, the solution fits the ‘just in time’ approach.”

PROJECT MANAGER





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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PERFECT PROTECTIVE PACKAGING