



## Perfect Protective Packaging System Integrations

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## Storopack – Your International Partner for Protective Packaging

You will find a general overview of customised and flexible protective packaging solutions at [www.storopack.co.uk](http://www.storopack.co.uk).

The Packaging business segment offers flexible protective packaging solutions. Complete consulting optimises the protective packaging, the protective packaging process and its integration in a company's internal logistics for maximum productivity and sustainability. A fourth dimension includes the customers of the customers: They should experience the protective packaging solution in a positive way during unpacking. The result is perfect protective packaging.

Storopack continuously improves the productivity of customers' protective packaging process.

Storopack offers four flexible protective packaging solutions: The air cushions AIRplus®, the paper cushioning pads PAPERplus®, PU foam cushions FOAMplus® and the packaging chips PELASPAN® and PELASPAN® BIO. The 'Working Comfort' consultative approach ensures ergonomics, efficiency and effectiveness in the packaging area. Our specialised application engineers can provide customised solutions ranging from equipment for the individual packaging desk to the design and implementation of entire packaging lines. Storopack integrates semi and fully automatic packaging systems to support intralogistics.

The globally active corporate group is represented throughout locations in North and South America, Europe and Asia. Storopack's protective packaging can be purchased through our extensive distribution network in over 40 countries.

## Working Comfort®

by STOROpack

Storopack sees to it that all components of a protective packaging solution conform to Working Comfort principles. Working Comfort means that the productivity of a performance component will be enhanced if it is operated in an ergonomically sound manner and if it is properly integrated into overall processes or contributes to a greater degree of integration.



## Innovation begins with the right questions

Storopack has identified four dimensions of value for its protective packaging. Each dimension is associated with a question for which Storopack provides an answer. The approach that Storopack takes to supply that answer is described in the following pages.



### 1. in-the-box: How well are your products protected?

The "in-the-box" dimension addresses precisely the protective packaging solutions and possible alternatives which are needed for the effective and efficient protection of the respective product during transportation.

### 2. into-the-box: How effective, efficient and ergonomic do you pack?

The "into-the-box" dimension creates Working Comfort by designing the corresponding systems integration which makes the identified protective packaging solution being applied into-the-box most effective, efficient and ergonomic.

### 3. around-the-box: How well is your packaging integrated into your intralogistics?

The "around-the-box" dimension integrates the protective packaging process into the physical, virtual and digital intralogistics superior system of the packaging area and distribution center.

On one hand, this includes physical integration into the packing station and packing area, as well as the associated virtual work organization. On the other hand, digital integration and connection to the warehouse management system of the client establishes a basis for automating the customized selection and application of protective packaging for both "in-the-box" and "into-the-box".

### 4. out-of-the-box (unboxing): How are your customers' unboxing-experiences?

Out-of-the-box" all options for protective packaging evaluate the "unboxing experience" with our customers' clients' eyes to ensure that the selected product protection solution is not only effective and efficient, but also contributes to the most positive experience possible when unpacking.

### Performance process of Storopack: Integration for high performances at every workplace

- Based on findings: detailed analysis of needs
- Competent: application engineers prepare conception and catalogue of measurements
- Working comfort: ergonomics, efficiency and effectiveness at each packaging station
- Everything from one source: company's own planning offices and workshops

Protective packaging solutions with Storopack offer almost unlimited options for integration into the intra-company logistics of a company. Storopack provides solutions for dispatch locations with only one packaging bench as well as for distribution centres with 50 or more packaging benches. Integration has demonstrated over a 20% productivity improvement for end users without any other changes being made. Total costs fall and the employees are more satisfied. Often, they are really excited because the work at the ergonomic packaging station is more comfortable in every way.

## AIRplus® reference projects

### Integration for electronics retailers

**Products:**

electronic components

**Size:**

39 benches with one integrated silo each

**Machine equipment:**

seven AIRplus® Bag Separators

**Partial automation:**

integrated Delivery System (IDS)

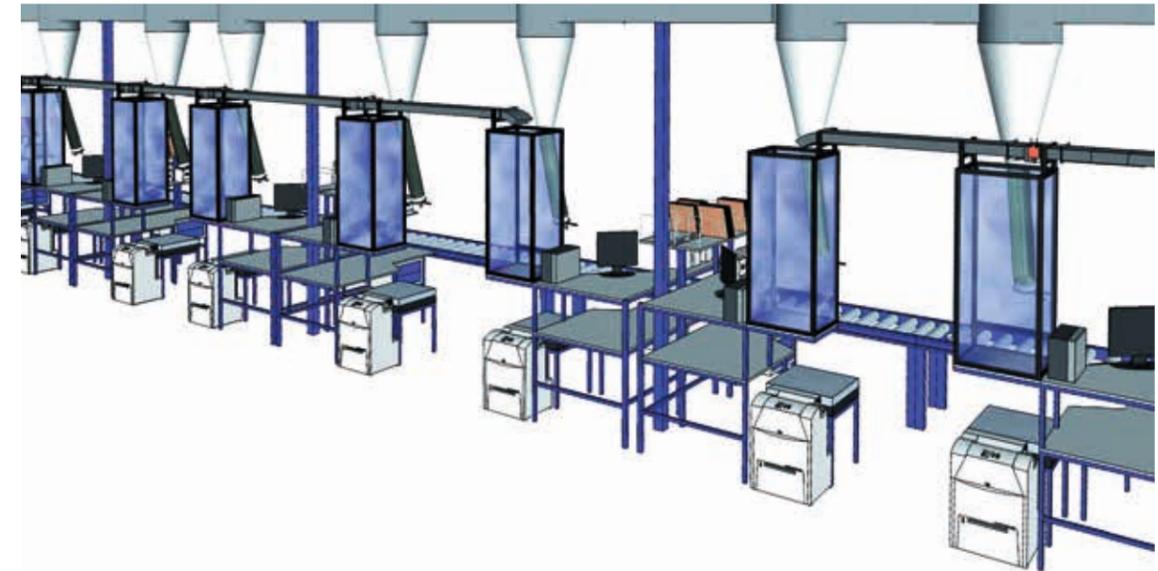
**Total performance:**

5,000 dispatches/day (average)

**Challenge:** The company needs a partner that can accompany the lean management initiatives in the area of protective packaging. The first task was to check whether loose fill was still the best packaging material for the empty space or whether there were better anti-static packaging solutions.

**Solution:** Storopack starts a continuous development partnership. The first review shows that air cushions are more economical in this specific case. The development of air cushions with ESD protection (innovation of Storopack), the development of partially automated integration, a divided packaging strand, faster processing times, significant savings in packaging material consumption and higher productivity

**The customer says this:** „We have faster processing times, greater ergonomics, and the integration into our existing logistics layout was successful. The „working comfort“ consultative approach“ fully paid off for us.



## AIRplus® reference projects

### Integration for a major dealer of commercial vehicle replacement parts

#### Products:

truck replacement parts

#### Size:

12 workplaces; space-saving feeding of air cushions through overhead bridge construction

#### Machine equipment:

6 AIRplus® GTIs

#### Performance per packaging bench:

2 minutes per dispatch (average)

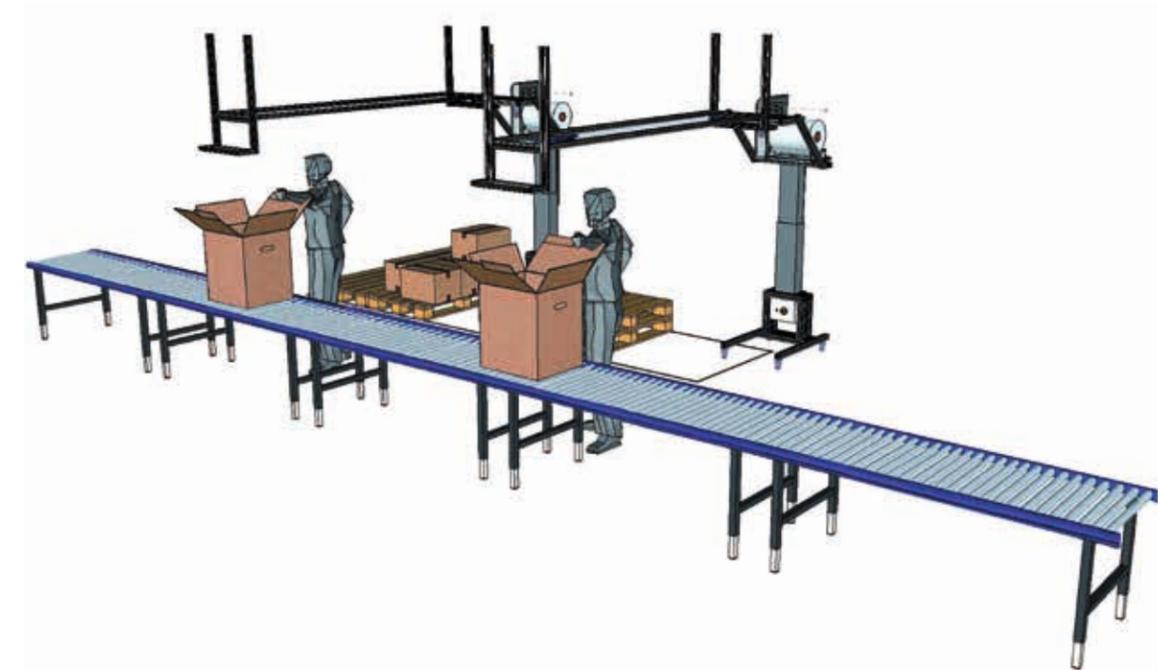
#### Total performance:

2,000 dispatches/day (average)

**Challenge:** The company sought new protective packaging for its fragile lorry spares that were susceptible to scratching. The point of the protective packaging is to fill empty space and pad articles. The available installation space is extremely small and does not permit the inclusion of a silo.

**Solution:** the air cushion type AIRplus® Cushion with 16 air chambers per film section is very flexible and can be used for the wrapping of fragile products. The three-layer CX film also sustains heavy products. The space-saving supply of cushions at the workplace is achieved with a clever bridge construction.

Reliable product protection with the flexible air cushion type AIRplus® Cushion, space-saving, overhead integration with quick AIRplus® GTI machines.



## AIRplus® reference projects

### Integration for drug companies

**Products:**

medicine

**Size:**

6 workplaces, one silo for two employees

**Machine equipment:**

one AIRplus® BagSeparator

**Partial automation:**

integrated Delivery System (IDS)

**Performance per packaging bench:**

15 seconds per dispatch (average)

**Total performance:**

1,800 dispatches/day (average)

**Challenge:** the costs of the protective packaging should be reduced. Required work cycle: After 15 seconds, the package must leave the packing table.

**Solution:** One AIRplus® BagSeparator supplies six packaging benches with air cushions automatically. The protective packaging can be introduced into the package immediately because the packaging strand is already divided into sections of the pre-determined length. The ergonomics are improved: the material is removed from directly above the packaging bench and the low consumption of the packaging material results in solid cost savings.

Quick protective packaging solutions for filling empty space with medicine; sustainable cost savings through intelligent integration solutions with higher work productivity and ergonomics.



## PAPERplus® case studies

### Integration for a department store group

#### Products:

Clothing, cosmetics, toys, wine and gift items

#### Scope:

7 SMARTline packing stations

#### Machinery:

7 PAPERplus® Papillons

#### Output at packing station:

140 boxes per packing station per day

#### Total output:

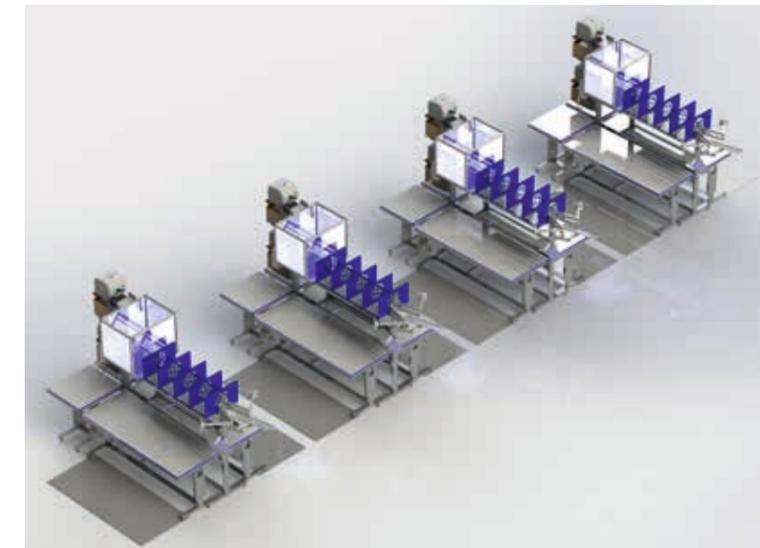
500 - 4,000 shipments / day

#### Challenge:

The challenge of this integration was first and foremost to optimally harmonize our packaging solution with the logistics processes of the Swiss department store chain. Consequently, Storopack assisted in redefining its logistics processes and to adapt them with respect to the packaging solution to achieve the best possible result.

#### Solution:

The PAPERplus® Papillon machines are mounted on seven SMARTline packing stations with silos and form the core of the packaging process. Each machine is equipped with a silo where paper pads are stored for two packing stations at a time. The shelves mounted above the table can accommodate shipping boxes and other packing materials that can be grabbed by the packers at any time.



#### Our customer said:

"Storopack not only offered us good products, they also provided support in form of expert comprehensive advice. As a result, we've optimized our workflows, and since the packing stations are designed not only with performance in mind, but employee comfort as well, our packers benefit quite directly from the Storopack solution, too. Thus the results are optimal for the customers, employees and company."





## PAPERplus® reference projects

### Integration for logistics centre

#### Products:

Fine chemicals, laboratory chemicals

#### Size:

24 workstations

#### Equipment:

24 PAPERplus® Classic (under-table variant)

#### Capacity at packing station:

4 minutes per shipment (average)

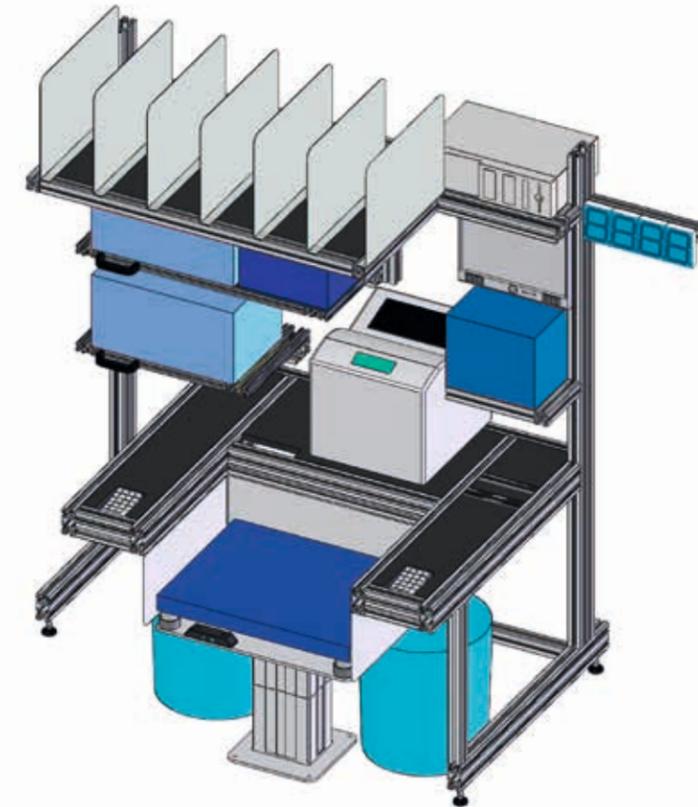
#### Total capacity:

5000 - 6000 shipments/day (average)

**Challenge:** In order to save storage space, the ready-made protective packaging previously used has to be replaced. The weight of the packaged goods ranges from a few hundred grams to several kilos. The desired on-demand protective packaging solution must cover this range.

**Solution:** PAPERplus® Classic paper padding provides the required density and resilience for heavy packaged goods. Because a single-ply paper type is used, the solution is still correctly sized for light products. Integration brings two advantages: the on-demand system produces the appropriate volume of paper padding, and the under-table variant of the PAPERplus® Classic machine system requires no extra space for installation.

**Our customer said:** "High safety levels for shipments, ergonomics, good cost structure – those are the facts. But we also gained more than this: the new protective packaging solution simplifies our working day. A lot of praise comes from our customers, too, as they receive their shipments in a single type of packaging. Card outside, paper inside, and they can dispose of it all in the same way."



## Storopack product portfolio

### AIRplus® - Air Cushions for Working Comfort

The air cushion formats AIRplus® Void, AIRplus® Cushion and AIRplus® Bubble offer a broad range of air cushion types. This means diverse application options for the protection of goods in packages.

AIRplus® includes three machine types that are designed for various packaging processes. Perfectly fitting equipment is offered to every company using our extensive range of machines designed for small, medium and high performance packaging needs.



### The advantages of AIRplus® for protective packaging:

- Reliable: constant film quality from the company's own production facilities
- Diverse: there is an air cushion type for every application
- Economical: Reduction in raw materials due to multi-layer CO extrusion
- Durable: excellent mechanical properties
- Environmental: AIRplus® film types can be recycled and AIRplus® Bio film is compostable in accordance with DIN Certco EN 13432
- Saves space: on-demand system for minimal storage
- Integrates: compact, user-friendly devices for key packing areas
- Practical disposal: one step and all that remains is the empty film



### PAPERplus® - Paper pads for Working Comfort

Because of the wide choice of PAPERplus® systems, almost any protective packaging problem can be solved efficiently with paper padding. From a heavy gearbox to be shipped abroad, to a new smartphone delivery, PAPERplus® provides a solution combining maximum productivity and 100% protection.

As an innovation-oriented service provider, Storopack continually adapts the range of machine systems, paper padding types and papers to the ongoing demands of the market.



### Advantages of PAPERplus® for protective packaging:

- Wide range: individual solutions from a diverse range
- Superior: outstanding cushioning effect and compressive strength
- 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
- Environment: Papers with PEFC certification and no coated types



## Storopack product portfolio

### FOAMplus® - Foam padding for perfect product protection

FOAMplus® foam cushioning provides customized, effective and lightweight protective packaging. Produced as you need it, this packaging foam conforms to fit any shape. The physical characteristics of this expanding synthetic provide package contents with durable and effective protection against stresses and strains during transport. The foam cushioning is lightweight yet exceptionally impact-resistant and long-lasting. The recipient can see and feel the premium protection provided by this packaging material.

FOAMplus® foam cushioning is available two three types of equipment: a foam-in-bag system and a foam directinjection system.



#### The Advantages of FOAMplus®:

- Superior foam quality: the same cushioning effect as alternative foam cushion systems that use 45% more materials
- Efficiency: extremely impact-resistant, exceptional padding characteristics
- Universal foam: maximizing strength and minimizing chemical usage for both heavy and lighter packaging
- Robust: also suitable for sharp-edged items and very heavy objects
- Customizable: conforms to the shape of an object as it hardens
- All-purpose: protects items of virtually all sizes, shapes and weights
- Versatile: can be used on selective areas or as an all-round covering
- Saves space: on-demand system provides for minimum warehousing

### Loose Fill - Packaging Chips for Working Comfort

Loose Fill packaging chips have served as a successful and flexible protective packaging system for decades. Storopack is among the pioneers in pourable padding materials. The company started production in 1973, making it one of the first suppliers in Europe. Today, there are two products under the brand name Loose Fill, made in the characteristic S-shape: PELASPAN® is the classic product made of Styrofoam® and PELASPAN® Bio which is made of plant starch.



#### The advantages of Loose Fill for protective packaging:

- Exceptionally fast: packaging completed within seconds
- Intuitive application: no training necessary
- Economical: advantageous price-performance ratio, high labour productivity
- Chips interlock to form a vibration-proof packaging with a superior padding effect
- Light: low volume weight
- PELASPAN® is 100% recyclable  
PELASPAN® Bio is completely compostable

