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.

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.
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
- Clean: almost dust-free
- Light: low volume weight
- PELASPAN® is 100% recyclable
- PELASPAN® Bio is completely compostable

In-house production

The know-how and practical experience that comes from in-house production mean consistent quality and reliable delivery. Our expertise in manufacturing techniques was the basis for the development of PELASPAN® Bio: Storopack was the first supplier to introduce packaging chips made of plant starch that retain a resilient S-shape.

PELASPAN®
PELASPAN® consists of Styrofoam®, resistant to temperature fluctuations, waterproof, resistant to bacteria and germs, 100% recyclable.

PELASPAN® Bio
PELASPAN® Bio consists of plant starch: 100% renewable resources, 100% compostable, certified according to EN 13432 (Europe) and ASTM D6400 (USA).
Loose Fill: Applications in the box

During filling, packaging chips automatically flow into all voids and fill every empty space in a box. The interlocking ‘s’ shape design of the packaging chips forms a vibration proof cushion around the product being packed and reduces migration in the box for increased product protection. Due to their elastic resilience, excellent blocking & bracing properties and high compressive strength, the packaging chips offer high impact protection during transportation.

Protective Property of Loose Fill

• Void Fill

Economical, Effective and Flexible: Protective Packaging with Loose Fill

Loose Fill packaging chips provide fast, economical and secure protective packaging for:

• household goods
• handicraft supplies
• books, stationery, office supplies
• toys
• pharmaceutical products
• health & beauty supplies, cosmetics

Loose Fill can be easily integrated into existing packaging processes, creating a custom made protective packaging solution to facilitate individual requirements.

Void Filling with Loose Fill

The box with the item inside is filled with packaging chips, until all hollow spaces around the item are completely filled.

• Packaging chips provide all-round protection
• Hollow spaces are filled quickly
• Example: prepackaged goods in contract logistics
Perfect Protective Packaging

Integration for a contract logistics company
Solution level 1

Products:
- pre-packaged consumer goods

Configuration solution 1:
- three packaging stations with automated supply of packaging chips
- release of packaging chips from above the conveyor belt
- foot pedal triggers release

Silo:
- central 240 m³ silo; ducts with blower unit

Packing station performance:
- 8 shipments per minute (average)

Overall performance:
- 7,000 shipments/day (average)

Our challenge: to fill the empty space in the box above the products (top fill). Various protective packaging options could be used. In tests, all fail to meet the processing time requirements set by the contract logistics company. When packers place protective packaging into empty spaces by hand, it takes too long to process each package. Two employees were required at each packing station in order to maintain the required processing rate.

Our solution: Loose Fill packaging chips flow automatically to fill all empty spaces. One employee per packing station is sufficient to guarantee adherence to the required processing rate. Packaging chips that land outside the box are sucked back into the packaging hopper. Use of PELASPAN® Bio demonstrates to the recipient the company’s commitment to sustainability.

What the client says: “Loose Fill is clearly number one in terms of speed. With it we can achieve higher levels of productivity and greater efficiencies with regards to protection during transport. Plus, chips made of vegetable starch provide us with a modern, more environmentally friendly packaging material.”

The Storopack performance process:
Provides high output up to full automation

- Based on findings: comprehensive analysis of needs
- Competent: application engineers create conceptual designs and an action plan
- Working comfort: ergonomics, efficiency and effectiveness at each packing station
- Everything from a single source: in-house planning offices and workshops
- All output levels: up to full automation

Loose Fill is the perfection application for pouring. This opens up a variety of possibilities for its integration into a company’s logistics. Storopack can create solutions for a single packing station as well as for highly automated distribution centres. Our experience has shown that productivity can be increased by over 10 percent through integration, decreasing overall costs and improving employee satisfaction.

Storopack offers integrations for all output levels. A fully automated packaging line fills chips into the boxes automatically. A control system regulates the fill volume, e.g. through a link to the inventory management system. The chips are stored in a central silo and are moved through ducts by a blower unit. With semi automation, several packing stations are connected to the central silo. The filling process is controlled via a foot pedal so that employees have both hands free to prepare the shipment. Loose Fill is also available as a separate system for individual packing stations. The configuration ensures improved ergonomics and faster operations.

Loose Fill Reference Projects

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Loose Fill Reference Projects

Integration for a contract logistics company
Solution level 1

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- pre-packaged consumer goods

Configuration solution 1:
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- release of packaging chips from above the conveyor belt
- foot pedal triggers release

Silo:
- central 240 m³ silo; ducts with blower unit

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Overall performance:
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Loose Fill Reference Projects

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- three packaging stations with automated supply of packaging chips
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- foot pedal triggers release

Silo:
- central 240 m³ silo; ducts with blower unit

Packing station performance:
- 8 shipments per minute (average)

Overall performance:
- 7,000 shipments/day (average)

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Loose Fill Reference Projects

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- Competent: application engineers create conceptual designs and an action plan
- Working comfort: ergonomics, efficiency and effectiveness at each packing station
- Everything from a single source: in-house planning offices and workshops
- All output levels: up to full automation

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Integration for a contract logistics company
Solution level 2

Products:
pre-packaged consumer goods

Configuration solution 2:
fully automated packaging line

Silo:
central 240 m³ silo; ducts with blower unit

Packing station performance:
up to 15 shipments per minute

Overall performance:
7,000 shipments/day (average)

Loose Fill Reference Projects:
From Semi to Full Automation

Our challenge: As requirements for output and productivity rise, Storopack assists the company in achieving the next level of development in protective packaging.

Solution level 2: Automation of the fill process. Packaging chips flow automatically into the box by means of a control unit. A fan reduces overfilling and any chips that fall outside the box are re-collected. The conveyor system then transports the box to the sealing unit and the packaging process can be completed without personnel.

Result 2: Output is more than doubled. Through automation, the client saves on personnel expenses and achieves a manifold increase in productivity.
Perfect Protective Packaging

Integration for an Online Merchant

**Products:**
prepackaged electric and electronic products

**Configuration:**
fully automated packaging line

**Silo:**
central silo; ducts with blower unit

**Performance:**
up to 20 shipments per minute

**Overall Performance:**
28,000 shipments/day (average)

Loose Fill Reference Projects: Automation

**Our challenge:** to make the protective packaging system more efficient and productive.

**Our solution:** In cooperation with one of Storopack’s distribution partners, an engineering firm develops and implements a fully automated Loose Fill packaging line. Once a box reaches the packing station, the system calculates the empty void. At the dispensing and filling station the required volume of packaging chips flows in from above. Light vibrations help to compress the chips inside the box.

**Result:** Automation increased output to as many as 20 parcels per minute. The online shop saves considerably on personnel costs and achieves significantly higher productivity from its protective packaging system.
Storopack’s own commitment to the responsible handling of our environment and society is derived from the corporate philosophy, “Vision & Guidelines” and includes formally agreed principles for all Storopack employees. Managers are responsible for the motivation and promotion of the employees so that the awareness of society, culture and the environment continues to develop.

Resources are necessary for the production of protective packaging. Without protective packaging or in the case of too little or incorrectly used protective packaging, the transported products will be damaged, however, new production of these goods is a waste of resources. For this reason, Storopack advocates the effective and efficient use of protective packaging.

**Sustainability & Environmental Protection**

PELASPAN® consists of expanded polystyrene (EPS), known under the brand name of Styrofoam®. It is produced without CFCs (chlorofluorocarbons) or HCFCs (hydro-chlorofluorocarbons).

PELASPAN® Bio consists of vegetable starch. Its compostability is certified according to the American ASTM D6400 standard (www.astm.org) and the European EN 13432 standard (www.european-bioplastics.org). The packaging chips can be discarded with normal household rubbish or organic waste.

**REUSE** means that ... this product may be reused for its original purpose several times.

- Due to the high quality resilience properties of PELASPAN®, the packaging chips can be reused several times.

**REDUCE** means that ... this product and its production process are conceptualised in a way that reduces the use of natural resources.

- PELASPAN® is usually manufactured from 100% post-consumption and production wastes.
- The low volume weight of the protective packaging Loose Fill: PELASPAN® or PELASPAN® Bio ensures reduced fuel use during transport.

**RECYCLE** means that ... post-consumption or production wastes of this product can be substituted for primary resources.

- PELASPAN® is fully recyclable. Disposal through pre-existing recycling systems helps to reduce the use of primary resources.

**RENEW** means that ... this product is made of renewable resources, e.g. wood or vegetable materials.

- PELASPAN® Bio consists of vegetable starch.