



PACKAGING

PAPERplus® IS

THE RESOURCE-SAVING,
CLASSIC WAY TO PACK.

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As of: 2020

1874 Founded as a tannery

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



68 locations

500 million Euros in revenue

2,430 employees



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 2,430 employees at certified production facilities and locations in 19 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

PAPERplus® IS THE CLASSIC WAY TO PACK.

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.

PAPERplus® Classic



PAPERplus® Track



PAPERplus®



THE BENEFITS OF PAPERplus®

- ▶ WIDE RANGE: INDIVIDUAL SOLUTIONS FROM A DIVERSE RANGE OF PADDING AND PAPER TYPES
- ▶ EFFICIENT: PATENTED CREASING TECHNOLOGY FOR MAXIMUM MATERIAL UTILISATION
- ▶ RELIABLE: HIGH AVAILABILITY WITH CONTINUOUS OPERATION
- ▶ ERGONOMIC: FOR EXAMPLE TOUCH PANELS, FOOT PEDALS AND NOISE REDUCTION
- ▶ IMAGE: PAPER HAS A FAVOURABLE IMAGE WITH END CUSTOMERS
- ▶ RECYCLABLE: PAPER PADDING IS PART OF THE PAPER RECYCLING LOOP AND IS FULLY RECYCLABLE
- ▶ RENEWABLE: PAPER COMES FROM RENEWABLE RESOURCES
- ▶ SUSTAINABLE: NO USE OF COATED PAPER

▶ **PAPERplus® product video:** www.storopack.com/paperplus-video

PAPERplus® Chevron



PAPERplus® Papillon



PAPERplus® Shooter



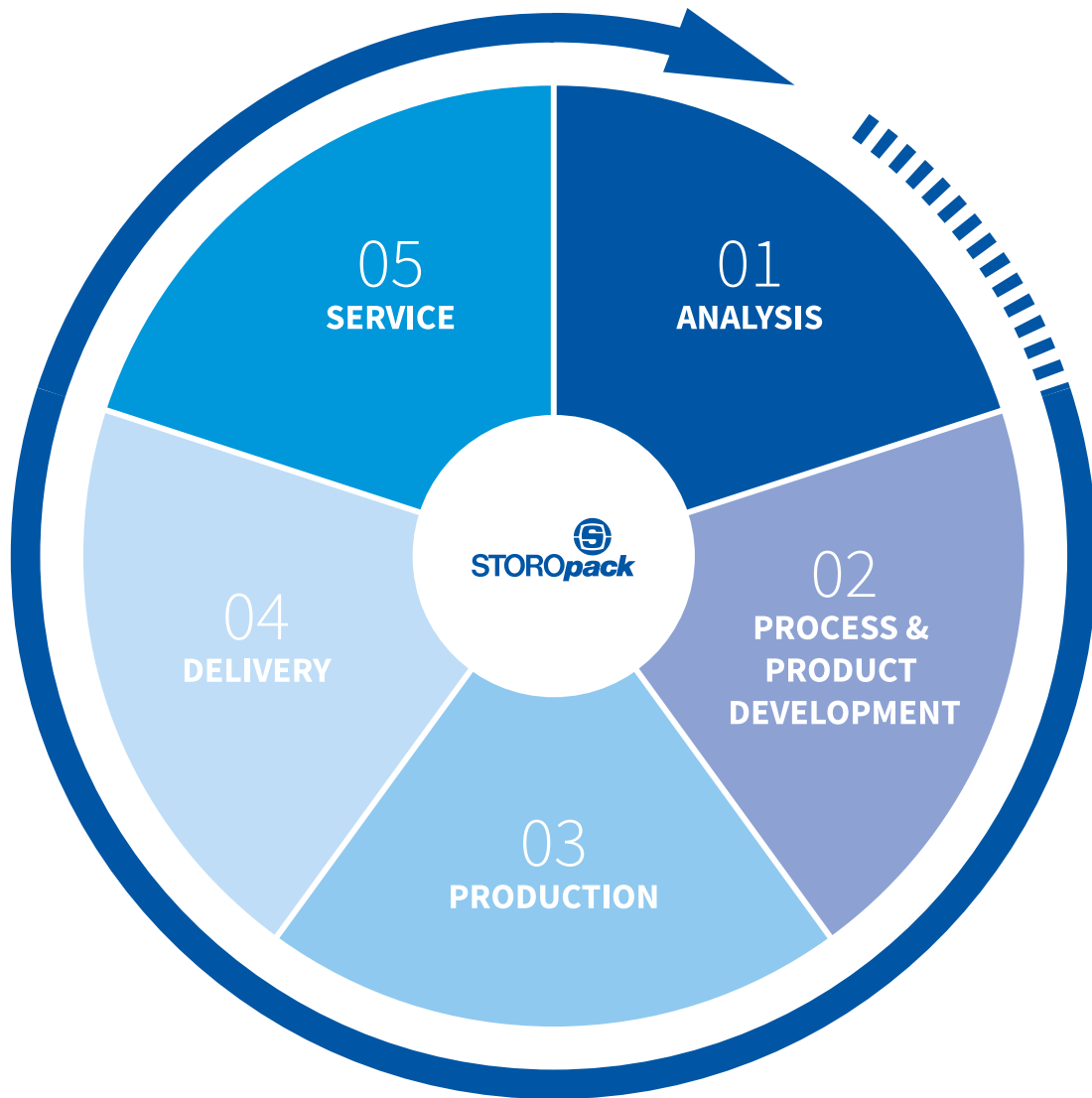




CONSULTING AND SERVICE

The background of the page is a photograph of two men in an office environment. The man on the left is older, with grey hair, wearing a grey sweater over a light blue shirt. The man on the right is younger, with dark hair, wearing a light-colored shirt. They are both looking at a document on a desk. The man on the right is pointing at the document. The entire image is overlaid with a semi-transparent blue filter. The text 'SERVICE MEANS FOCUSING ON CUSTOMERS' REQUIREMENTS.' is overlaid on the lower right portion of the image.

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.

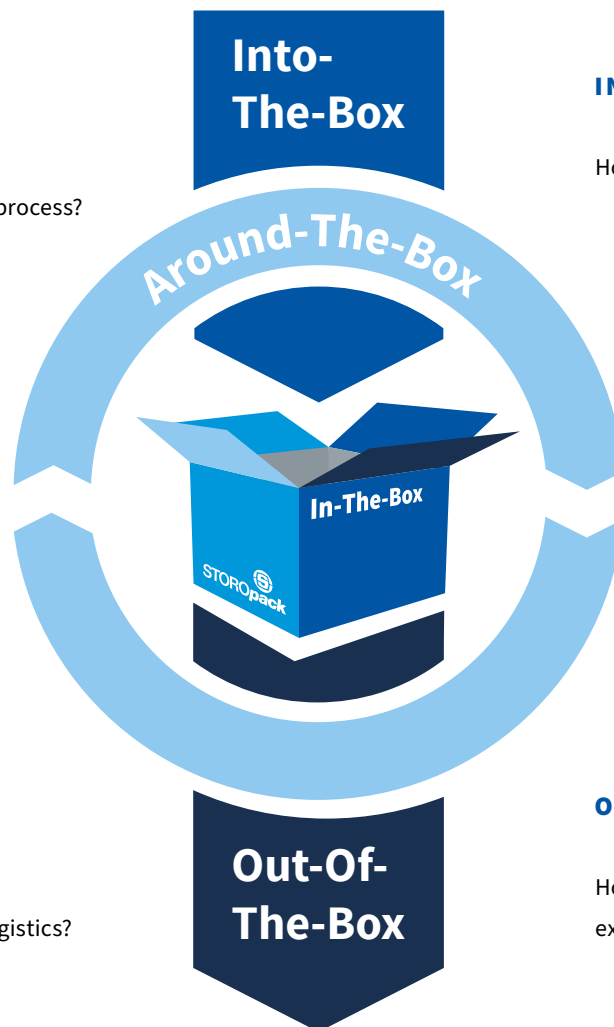
This model forms the basis for tailored protective packaging solutions as well as our efforts to optimize your packing processes.

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?

Working Comfort® MEANS BEING MORE PRODUCTIVE WITH ERGONOMIC PACKAGING STATIONS.

Ergonomic workspaces and efficient operations solutions. Storopack help increase the productivity of your protective packaging process with Working Comfort®. Every unnecessary movement when packaging your products costs the packer time and energy. This can be avoided with the right processes and workstations. Our experts analyze your existing packaging processes and come up with the right solution, taking into account ergonomic aspects.

The focus here is on the efficiency of the processes and the well-being of your employees in equal measure: Unnecessary tasks are eliminated; all packaging material is always conveniently on hand for the packer at the workstations, which are designed in line with the Working Comfort® principle.

Working Comfort® LEADS TO

- ▶ INCREASED PRODUCTIVITY
- ▶ ELIMINATES FATIGUE
- ▶ WELL-BEING OF YOUR EMPLOYEES AT THE WORKSTATION IS INCREASED



For comfortable and ergonomic work:
Working Comfort® solution with PAPERplus® Papillon



Developed in line with the Working Comfort® principle:
SMARTline Packing Station with PAPERplus® Track

SMARTline Packing Stations FOCUS ON ERGONOMICS IN THE PACKAGING PROCESS.

The SMARTline Packing Stations are ergonomically designed according to the Working Comfort® principle. Unnecessary movements are avoided, as the packer always has all of the packaging materials conveniently to hand. The individually customised packing stations are ergonomically designed

and not only increase the productivity of your processes, but also the well-being of your employees. Thanks to the modular principle, the packing stations can be expanded at any time and thus tailored to your employee's individual needs and the requirements of your packing process.

THE BENEFITS OF THE SMARTline Packing Stations

- ▶ VERSTILE: COMPREHENSIVE SOLUTION FOR ALL OF Storopack's PACKAGING MATERIALS: AIRplus®, PAPERplus®, FOAMplus®, AND LOOSE FILL
- ▶ SMART: SEAMLESS INTEGRATION INTO YOUR PACKING PROCESS
- ▶ ERGONOMICAL: DESIGNED IN ACCORDANCE WITH THE Working Comfort® PRINCIPLE
- ▶ FLEXIBLE: CAN BE EXPANDED AT ANY TIME THANKS TO THE MODULAR CONCEPT AND EXTENSIVE ACCESSORIES
- ▶ VISUALLY APPEALING: ELEGANT LOOKING ALUMINUM STRUCTURE

P

PACKAGING SYSTEMS

VARIETY IS
OFFERING THE APPROPRIATE
PROTECTION FOR EACH ITEM.



PAPERplus® Classic IS THE IDEAL PROTECTIVE PACKAGING FOR HEAVY WEIGHT PRODUCTS.

The PAPERplus® Classic and Classic² paper cushioning systems are the ideal protective packaging solution for heavy weight products. With paper pads, made from one or two ply paper, even heavy products can be securely blocked and braced in cartons and cushioned all around. At the press of a button, PAPERplus® Classic produces

robust, tear-resistant, but also flexible and highly malleable paper cushioning. Storopack customers can choose between the kraft, recycling and grass paper.



Sturdy protection for heavy items:
PAPERplus® Classic for cushioning and
block and brace applications

THE BENEFITS OF PAPERplus® Classic

- ▶ ROBUST: HIGH CRIMP PROVIDES THE STRENGTH AND DURABILITY TO PACK HEAVY OBJECTS
- ▶ FLEXIBLE: PAPER PADS CAN BE EASILY SHAPED AND EVEN COILED
- ▶ USER-FRIENDLY: ELECTRICALLY HEIGHT-ADJUSTABLE THUS MAKING THE MOVEMENTS OF THE OPERATOR ERGONOMIC AND FASTER
- ▶ EASY TO HANDLE: INTUITIVE TOUCH SCREEN TO STORE OPERATING MODI
- ▶ VARIABLE: MACHINE PROCESSES SINGLE AND DOUBLE-PLY PAPER GRADES AS WELL AS KRAFT, RECYCLING AND GRASS PAPER



PAPERplus® Classic



PAPERplus® Classic²



The fast solution for heavy to medium-weight goods:
PAPERplus® Track for cushioning and
block and brace applications

PAPERplus® Track OFFERS ULTRA-HIGH SPEED FOR THE IDEAL PROTECTIVE PACKAGING.

With the PAPERplus® Track paper cushion system, you're well equipped to ensure high throughput and secure packaging material: the machine produces paper cushion in mere seconds directly at the packing station, delivering highly effective padding despite limited use of material. Thanks to the sturdy padding, the system is ideal for medium to large packages – the perfect solution for shipping spare parts, electronic components, ceramics, and more. PAPERplus® Track is compact in size and, like all other Storopack padding systems, can also be integrated into existing distribution lines.

As a result, PAPERplus® Track guarantees optimal packing processes and reduces process costs. Especially user-friendly: perforated paper makes it possible to separate the paper cushion without a blade and with a single motion. Users also benefit from greater flexibility – the volume of paper cushion can be adjusted specifically for every product. Another advantage: the machine features a touchscreen and can be operated online using a smartphone or tablet.

THE BENEFITS OF PAPERplus® Track

- ▶ FAST: MORE PAPER CUSHIONS THE MOMENT THEY ARE REMOVED THANKS TO ON-DEMAND FUNCTION
- ▶ FORWARD-LOOKING: FEATURES A INTUITIVE TOUCH SCREEN AND CAN BE CONTROLLED VIA SMARTPHONE OR TABLET
- ▶ UNTIRING: LOW-MAINTENANCE MACHINE WITH FAST AND EASY PAPER LOADING
- ▶ ADJUSTABLE: ADJUSTABLE DENSITY MAKING IT SUITABLE FOR A WIDE RANGE OF APPLICATIONS
- ▶ USER-FRIENDLY: PERFORATED PAPER ALLOWS THE PAPER CUSHIONS TO BE MECHANICALLY SEPARATED EASILY WITHOUT A CUTTING MECHANISM FOR INCREASED OPERATING SAFETY
- ▶ INTEGRATABLE: CAN EASILY BE INTEGRATED INTO EXISTING PACKING PROCESSES DUE TO COMPACT DESIGN



PAPERplus® Track

▶ **PAPERplus® Track product video:** www.storopack.com/paperplus-track-video

PAPERplus® Chevron OFFERS MAXIMUM FILL WITH LESS MATERIAL.

PAPERplus® Chevron delivers maximum fill with less material. The unique paper cushion system produces crinkled paper tubes that are large in volume and offer exceptional shock absorption. Very little paper is required to fill void in the package, and will block and brace light to medium-weight shipping goods in the carton. The high-quality paper cushioning is flexible, malleable and, due to perforation, very easy to separate manually.

PAPERplus® Chevron is available in a variety of versions, including free-standing and tabletop models, and can be easily integrated into existing packing processes. Storopack customers can choose between brown, black and white paper.



Efficient packaging for medium-weight to light products:
PAPERplus® Chevron for void fill and
block and brace applications

THE BENEFITS OF PAPERplus® Chevron

- ▶ EFFICIENT: FAST TOP FILL WITH LITTLE PAPER REQUIRED
- ▶ FAST: MORE PAPER CUSHIONS THE MOMENT THEY ARE REMOVED THANKS TO ON-DEMAND FUNCTION
- ▶ ECONOMICAL: USES ONLY A SMALL AMOUNT OF PAPER PADDING TO FILL A PACKAGE
- ▶ INTEGRATABLE: CAN EASILY BE INTEGRATED INTO EXISTING PACKING PROCESSES
- ▶ USER-FRIENDLY: SIMPLE-TO-USE MULTIFUNCTIONAL CONTROL PANEL FOR EFFICIENT WORKING
- ▶ UNIQUE: TUBULAR CUSHIONS REINFORCED WITH RIDGES FOR ADDITIONAL STIFFNESS



PAPERplus® Chevron³



The compact solution for medium-weight to light items:
PAPERplus® Papillon for void fill and wrapping

PAPERplus® Papillon MEANS OPTIMAL PROTECTION FOR SMALL AND MEDIUM-SIZED SHIPPING GOODS.

Thanks to its special, patented shape, the paper cushioning of the PAPERplus® Papillon system offers optimal protection for small and medium-sized shipping goods. It's suitable for filling voids and wrapping products, boasts large volume at a low weight, and is especially soft and flexible.

Available in a variety of models, the PAPERplus® Papillon machine is simple to adapt to the specific needs of our customers.

Three operating modes also simplify on-demand production of paper cushioning directly at the packing station, while the system itself features a compact, space-saving design. A silo and a single PAPERplus® Papillon can supply multiple packing stations with cushioning at the same time. The paper used by PAPERplus® Papillon to create paper cushioning is available in brown and several other colors.

THE BENEFITS OF PAPERplus® Papillon

- ▶ USER-FRIENDLY: EASY TO OPERATE
- ▶ SMALL: REQUIRES ONLY A SMALL FOOTPRINT, IS LIGHT AND CAN EVEN BE HAND-CARRIED
- ▶ INTEGRATABLE: EASY INTEGRATION WITH MULTIPLE SETUPS
- ▶ VERSATILE: AUTOMATIC, ON-DEMAND AND FOOT-PEDAL MODE AVAILABLE
- ▶ ADAPTABLE: QUICKLY ADAPTS TO THE PRODUCTS IN THE BOX DUE TO SNUGLY AND LIGHT PADS
- ▶ ELEGANT: UNIQUE SHAPE FOR SPECIAL UNBOXING EXPERIENCE



PAPERplus® Papillon Floor Stand Model

▶ **PAPERplus® Papillon product video:** www.storopack.com/paperplus-papillon-video

PAPERplus® Shooter IS MULTI-LAYER PAPER CUSHIONING AT MAXIMUM SPEED.

The PAPERplus® Shooter transforms single-layer kraft paper into multi-layer paper cushioning at maximum speeds, which you can use to fill cartons and block and brace products. The PAPERplus® Shooter can produce up to 3.7 meters of paper cushioning in a single second. The system is available as a free-standing or tabletop model, both of which are exceptionally easy to use:

they're compact in size with an adjustable height and boast a rotating head and an automatic cutting device. The speed can be infinitely adjusted as required. Our customers can also integrate the PAPERplus® Shooter into existing packing processes with the greatest of ease, and produce paper cushioning directly at the packing station.



The user-friendly and fast solution for light goods:
PAPERplus® Shooter for void fill

THE BENEFITS OF PAPERplus® Shooter

- ▶ EFFICIENT: PRODUCES MULTI-PLY FILLING MATERIAL FROM A SINGLE-PLY PAPER
- ▶ USER-FRIENDLY: SPEED INFINITELY ADJUSTABLE TO LEVEL OF COMFORT OF THE USER
- ▶ CONVENIENT: NO PAPER JAMS EVEN AT HIGH FEED RATES
- ▶ ERGONOMIC: HEIGHT-ADJUSTABLE MACHINE, SWIVEL HEAD
- ▶ EFFORTLESS: FLAT CUSHIONING STRIP ALMOST AUTOMATICALLY SPREADS ITSELF OVER THE GOODS



PAPERplus® Shooter Floor Stand Model



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.

PAPERplus® Classic Grass

- ▶ CONSISTS OF GRASS FIBERS AND RECYCLING PAPER
- ▶ CAN BE FULLY RECYCLED OR COMPOSTED
- ▶ OFFERS THE SAME OUTSTANDING PROTECTIVE PACKAGING PROPERTIES AS OTHER Storopack PAPER TYPES
- ▶ USES FAR LESS WATER AND ENERGY DURING PRODUCTION THAN WOOD FIBERS



PAPERplus® RECYCLING PAPER

- ▶ IS MADE FROM 100% RECYCLED MATERIAL
- ▶ CAN BE COMPLETELY RECYCLED
- ▶ PROTECTS PRODUCTS RELIABLY THANKS TO THE SIMILAR PACKAGING PROPERTIES AS CONVENTIONAL KRAFT PAPER
- ▶ AVAILABLE IN SEVERAL COLORS

REDUCE

- ▶ Storopack supplies paper with recycled constituents. This means an efficient use of the recycling loop.

REUSE

- ▶ Because of the outstanding quality of PAPERplus®, the paper padding can be used many times.

RECYCLE

- ▶ PAPERplus® paper padding is part of the paper recycling loop and is fully recyclable. Disposal via existing recycling facilities contributes to reducing the use of primary raw materials.
- ▶ PAPERplus® uses inks which the recycler can easily remove (de-inking process).

RENEW

- ▶ PAPERplus® paper padding consist of paper made from wood or grass.



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

CD Group is the right choice in Italy when it comes to storing, packaging, and shipping a variety of products. The four companies within the group, manage goods ranging from clothes to cosmetics and pharmaceuticals. The volumes involved are impressive: the company processes 16,000 orders daily at six locations and looks after 190 brands. Storopack has been working with the service provider for a few years now. In order to keep up in the ever-changing market of e-commerce, CD Group has to be able to provide a flexible, customizable and especially fast service to its customers. To improve its competitiveness CD Group wanted to modernize their packaging system.



At the Liscate location, CD Group now uses PAPERplus® Papillon Battery machines on tables with wheels. Equipped with long lasting operating batteries, the machines on tables represent a mobile solution, allowing employees to pack directly in the warehouse.

The company also sets great store in sustainable solutions which is why PAPERplus® Papillon white a paper made from recycled material is now used. In addition, white paper makes for a great unboxing experience.



▶ **Video:** www.storopack.com/cd-group

Customer Case Studies

CD GROUP – PAPERplus® Papillon Battery MORE EFFICIENT PROCESSES





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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