



# the blue experience

Innovative Protective Packaging ...

2026 - 2027





Welcome to Emba-Protec!

Founded in 2003, our family-run company can look back on an impressive development over more than 20 years. As the leading provider of protective packaging in Europe, we focus exclusively on packaging solutions for our customers' sensitive or logistically challenging shipping products.

As your partner, we produce and supply innovative protective packaging specifically for your sensitive products. At our main factory in Bad Oeynhausen, East Westphalia, we combine development, production and logistics under one roof. With modern machinery, efficient administration and a highly qualified team, we deliver customised packaging solutions tailored to your product requirements in very short lead times.

With more than 500 variants, our standard range is the **largest immediate delivery programme on the market**. High print runs mean you get the best prices, and all without tooling costs. You can order from stock – even in very small quantities – and we deliver immediately.

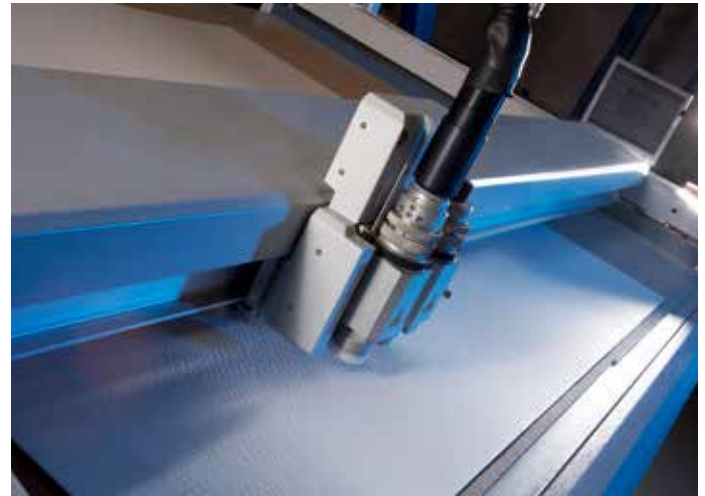
We are also committed to environmental protection and sustainability. We use **FSC-certified corrugated cardboard** and recycle 100% of all production waste. Thanks to state-of-the-art building technology and the use of renewable energies, we save up to 70% of the usual consumption. Heat recovery and a 1.2 megawatt photovoltaic system underline this. By the way: **our products are 100% recyclable**. After use, they are disposed of unsorted with the waste paper. Complete recycling is guaranteed.

We produce your protective packaging according to the latest technical standards, in the best quality and under the highest environmental standards. You can rely on that. Our certified quality and environmental management systems according to **ISO 9001** and **ISO 14001** confirm this.

**Emba-Protec**  
  
**MADE IN GERMANY**



Zertifiziertes Qualitätsmanagement System /  
Certified quality management system  
ISO 9001: 2015  
Umweltmanagement nach /  
Environmental management  
ISO 14001: 2015



We can also design customised packaging for small or large quantities. Our team uses state-of-the-art CAD systems to realise **over 1,000 new developments** every year. Working closely with you, we take into account not only all possible storage and transport conditions for your product, but also the entire work process.



You can save even more time with our Studio **Virtual Visits®**. Our developers will present your initial design to you live from various camera angles – quickly via a Teams meeting. Changes can be identified and implemented immediately. **This allows you to arrive at the optimal solution much more quickly.**

Initial samples are plotted and presented immediately so that you can test your new packaging before series production. Optionally, we carry out **drop tests in accordance with UPS standards (DIN ISO 2248)** or G-value measurements so that you can be sure from the outset that your products are optimally protected during shipping.



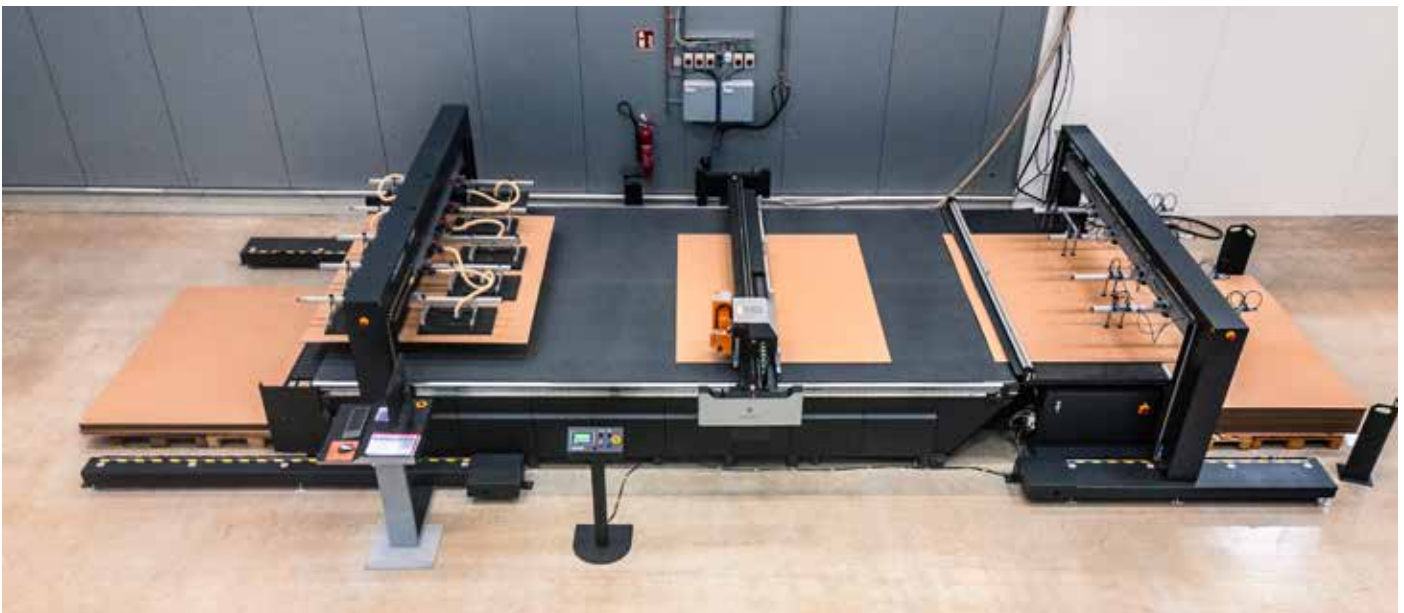


Once your packaging design has been created and approved by you, there are various production options available.

For large print runs, we use our 28-metre high-performance die cutter, which produces even complex contours precisely and efficiently. This enables us to guarantee consistently high quality, even for large quantities. For small print runs, we also use small die cutters. The advantage for you is high cost-effectiveness with low tooling costs.

For zero series or small orders, our modern industrial plotter is at your disposal. Here, your packaging is produced in no time at all without any tooling costs – ideal if you need initial samples quickly or want flexible production quantities.

You can either test your packaging immediately or have your desired series quantity produced straight away. You benefit from our wide range of materials, individual cuts and optional special equipment.





Maximum precision is crucial for our fixing and membrane packaging. During the foiling process, each manufactured part is not only individually coded, but also produced with millimetre precision – at impressive speeds of up to 25,000 pieces per hour.

Despite the high speed, our trained staff ensure that each production run is checked manually. This allows us to guarantee that the packaging meets the high standards of our customers. In addition, we guarantee consistently high product quality through continuous testing and a strict quality management system.

Our complaint rate of only 0.036% underlines the effectiveness of our processes and the trust our customers place in our packaging solutions. We combine state-of-the-art manufacturing technology with careful craftsmanship – for reliable protection with every batch.



## Assembly



In addition, we also manufacture complex packaging solutions from various components.

Once the individual components have been punched or plotted, careful manual work is often essential. Whether glued or stapled, folded or pinned, every step must be precise and consistent.



When assembling the components, a well-coordinated and experienced team is essential. It's good that you can get all of this from us.



Once everything is ready, the components are assembled and checked for accuracy of fit. So that each of your packages works perfectly. Whether assembled or disassembled. Your wishes are our mission.

## Warehousing and delivery logistics



With over 16,000 square metres of storage and production space and a modern high-bay warehouse with more than 10,000 storage locations, we ensure just-in-time delivery of your packaging – reliably, flexibly and on time.

Place a blanket order with us for your packaging and we will produce large quantities in advance and store them for you. This allows you to benefit from price advantages due to the high volume, while we cover the costs until you call off the order. You only pay when your packaging leaves our premises.

The process is as simple as it is efficient: you simply call off the quantities you need and we deliver directly from our warehouse to the specified destination – always tailored to your current processes and requirements. This ensures that your packaging is available whenever you need it, without you having to tie up storage space or capital.

This flexibility, combined with short response times and reliable logistics, is part of our dynamic approach – so that your packaging solutions fit seamlessly into your processes at all times.



# Our International Sales Team

We have a good reputation in consulting.

## Sales Director

### Jan-Hendrik Hagelmann



**Sales Director International**  
Phone: +49 57 31 - 30 888 - 14  
Mobile: +49 172 - 2 73 11 11  
E-Mail: jh@emba-protec.de

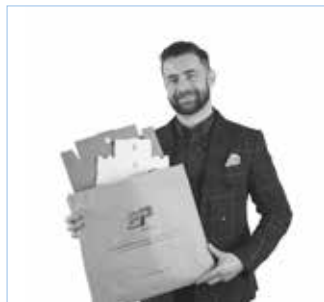
## Sales Team International

### Agnieszka Szurman



**Country Manager Eastern Europe**  
Mobile: +48 605 538 995  
E-Mail: asz@emba-protec.com

### Jakub Kryński



**Sales Manager Poland**  
Mobile: +48 603 564 304  
E-Mail: jk@emba-protec.com

## Sales Team International

### Alain Sijbers



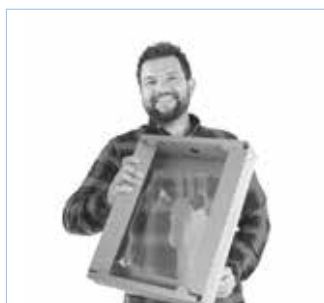
**Sales Manager Benelux**  
Mobile: +31 6 1612 5856  
E-Mail: alain@emba-protec.de

### Aaron Swinford



**Sales Manager UK / Ireland**  
Mobile: +44 7359 380107  
E-Mail: aaron@emba-protec.com

### Raúl Rodríguez



**Sales Manager Spain, Portugal**  
Mobile: +34 641 388 669  
E-Mail: rr@emba-protec.com

### Bertrand Lavaud



**Sales Manager France**  
Mobile: +33 7 66 55 00 94  
E-Mail: bl@emba-protec.com

## Product Management

### Ulf Helbich



**Project Management**  
**Emba-TrayTec® / Emba Buzz n'Pack®**  
Phone: +49 57 31 - 30 888 - 36  
Mobile: +49 1 74 - 2 62 09 49  
E-Mail: uh@emba-protec.de

# Our International Sales Team

And people who stand for it.

## Sales Director

### Bernhard Müller



#### Sales Director

Phone: +49 57 31 - 30 888 - 13  
Mobile: +49 1 72 - 1 57 20 19  
E-Mail: bm@emba-protec.de

## Sales Team National

### Joshua Bauder



#### Area management Zip 01-19, 39, 98-99

Mobile: +49 1 72 - 7 20 31 23  
E-Mail: jba@emba-protec.de

### Ben Frankowski



#### Area management

Zip 20-25, 27, 29, 30-31, 37-38  
Mobile: +49 1 73 - 2 79 31 39  
E-Mail: bfr@emba-protec.de

### Sven Walter



#### Area management

Zip 26, 28, 32-36, 48-49, 57-59  
Mobile: +49 1 72 - 7 20 32 91  
E-Mail: sw@emba-protec.de

## Sales Team National

### Joachim Blanke



#### Area management Zip 40-47, 50-54, 56

Mobile: +49 1 72 - 2 32 82 02  
E-Mail: jb@emba-protec.de

### Christian Fretz



#### Area management Zip 55, 60-69, 70-71, 73-77, 79

Mobile: +49 1 72 - 7 20 32 66  
E-Mail: cfr@emba-protec.de

### Bernd Salzwedel



#### Area management

Zip 72, 78, 87-89, Switzerland,  
Liechtenstein, Austria West  
Mobile: +49 1 72 - 9 72 03 22  
E-Mail: bs@emba-protec.de

### Stephan Obergassner



#### Area management

Zip 80-86, 90-97, Austria Oriental  
Mobile: +49 1 72 - 7 22 82 03  
E-Mail: so@emba-protec.de

# Our Team

Your expectations are a vital part of our work.

## Sales Service

**Lina Schröder**



**Customer Support**  
ZIP 26, 28, 32-36, 40-47, 48-49,  
50-54, 56, 57-59, 72, 78, 87-89  
Phone: +49 57 31 - 30 888 - 39  
E-Mail: ls@emba-protec.de

**Jennifer Eichmann**



**Customer Support**  
ZIP 80-86, 90-97, Austria East,  
Austria West and Switzerland /  
Liechtenstein  
Phone: +49 57 31 - 30 888 - 33  
E-Mail: je@emba-protec.de

**Berit Sager**



**Customer Support**  
Benelux, Great Britain, Ireland,  
Scandinavia, Southern Europe,  
China, India, USA, Australia, Italy  
Phone: +49 57 31 - 30 888 - 45  
E-Mail: bsa@emba-protec.de

**Maike Seyfarth**



**Customer Support**  
France, Poland, Czech Republic,  
Hungary, Romania, Bulgaria,  
Slovakia, Spain, Portugal  
Phone: +49 57 31 - 30 888 - 33  
E-Mail: ms@emba-protec.de

## Sales Service

**Lukas Kobus**



**Customer Support**  
ZIP 01-19, 20-25, 27, 29-31, 37-39,  
98-99  
Phone: +49 57 31 - 30 888 - 38  
E-Mail: lk@emba-protec.de

**Viktor Frick**



**Customer Support**  
ZIP 55, 60-69, 70-71, 73-77, 79  
Phone: +49 57 31 - 30 888 - 37  
E-Mail: vf@emba-protec.de

**Nadine Gresförder**



**Customer Support Catalog Items**  
Telefon: 0 57 31 - 30 888 - 31  
E-Mail: ng@emba-protec.de

**Angela Scholz**

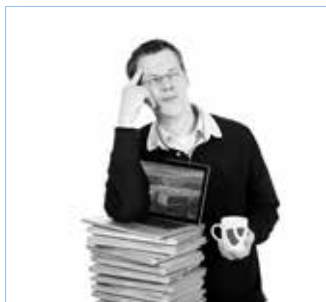


**Operations management,  
Quality assurance**  
Phone: +49 57 31 - 30 888 - 55  
E-Mail: as@emba-protec.de

## Quality Assurance

## Media | IT

**Dirk Hundertmark**



**Media | IT**  
Phone: +49 57 31 - 30 888 - 88  
E-Mail: dh@emba-protec.de

## Marketing

**Mareike Lümekemann**



**Marketing**  
Phone: +49 57 31 - 30 888 - 11  
E-Mail: ml@emba-protec.de

## Purchasing

**Silke Kusch**



**Purchasing Management**  
Phone: +49 57 31 - 30 888 - 62  
E-Mail: sk@emba-protec.de

**Michael Trunk**



**Purchasing**  
Phone: +49 57 31 - 30 888 - 64  
E-Mail: mt@emba-protec.de

### Development

**Adam Grimann**



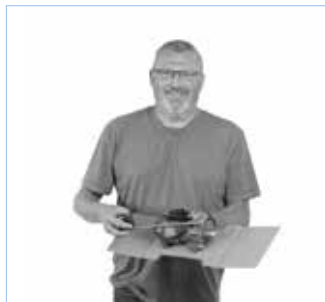
**Research & Development**  
Phone: +49 57 31 - 30 888 - 53  
E-Mail: ag@emba-protec.de

**Silke Menzel**



**Research & Development**  
Phone: +49 57 31 - 30 888 - 52  
E-Mail: sme@emba-protec.de

**Ingo Keil**



**Research & Development**  
Phone: +49 57 31 - 30 888 - 54  
E-Mail: ik@emba-protec.de

**Dirk Baumann**



**Production planning,  
QM UM representative**  
Phone: +49 57 31 - 30 888 - 61  
E-Mail: db@emba-protec.de

### Logistics

**Daniel Kusch**



**Head of Logistics**  
Phone: +49 57 31 - 30 888 - 72  
E-Mail: dku@emba-protec.de

**Marcus Edler**



**Storage Management**  
Phone: +49 57 31 - 30 888 - 74  
E-Mail: me@emba-protec.de

**Omid Ammo**



**Logistics**  
Phone: +49 57 31 - 30 888 - 73  
E-Mail: oa@emba-protec.de

**Christina Frankowski**



**Reception**  
Phone: +49 57 31 - 30 888 - 0  
E-Mail: info@emba-protec.de

### Accounting

**Melanie Wiek**



**Accounts Receivable Department**  
Phone: +49 57 31 - 30 888 - 15  
E-Mail: mw@emba-protec.de

**Laura Wiek**



**Accounting**  
Phone: +49 57 31 - 30 888 - 16  
E-Mail: lw@emba-protec.de

**Petra Köhn**



**Accounting**  
Telefon: +49 57 31 - 30 888 - 17  
E-Mail: pk@emba-protec.de

# Table of Contents

## Packaging Systems

### Emba-Flex® - The Retention Packaging

Page 18-40



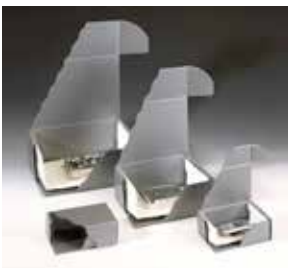
The special stretch mechanism of Emba Flex® ensures that the stretch film fixes the product firmly to the corrugated cardboard format, so avoiding any slipping. The highly flexible but practically tear-free stretch film clings perfectly to the different product contours.

In addition to the insert we also offer the matching shipping box.

**For products weighing up to 5 kg.**

### Emba-Flex CLEANLINE® - The Plastic Retention Packaging

Page 42-49



To meet the highest requirements, we have developed a product line based on our proven and successful packaging system Emba-Flex®. The idea was to offer a perfect solution for e.g. dental technology applications, precision engineering applications and chip technology applications, where dust-free packaging systems are necessary. To a large extent, the use of plastic packaging material minimises the amount of fine particles usually present when using corrugated board packaging.

**For products weighing up to 2 kg.**

### Emba-Quick® - The One-Piece-Retention Packaging

Page 52-65



Based on our proven and successful packaging systems Emba-Flex® we offer an even faster packaging solution. The transport box is already attached. This saves time and storage space.

**For products weighing up to 2 kg.**

### Emba-Quick SK® - The Suspension Packaging with self-adhesive closure

Page 66-77



Packaging doesn't get any faster than this.  
All in one: fusible packaging, outer carton and sealing material.

**For products weighing up to 2 kg.**

### Emba-Swing® - The Suspension Packaging

Page 78-92



The highly flexible but practically tear-free stretch film of the Emba-Swing® solution clings perfectly to the different product contours. Clamping between two suspension cushions means that the product will be stored as if it was "floating on air" during transport. Even if the box is dropped on its side walls also the heaviest products will remain in position.

The transport box is part of the set.

**For products weighing up to 30 kg.**

# Table of Contents

## Packaging Systems

### Emba-One® - The best from 2 systems combined!

Page 94-99



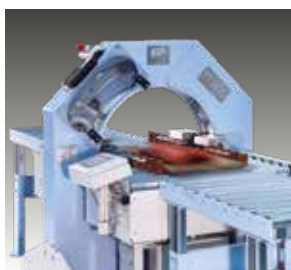
This flexible systems is compact and holds your product firmly in position during transit. With this process, Emba One® combines the good properties of product cushioning and product fixing.

Emba One® can individually adapt to even the most varied product contours. Due to the „suspended delivery“, there is a very high degree of protection against shocks and vibrations.

**For products weighing up to 1 kg.**

### Emba-TrayTec® - The automatic packaging solution

Page 100-109



This tray packaging machine ensures perfect product protection, high-speed packaging and low costs. This easy-to-operate machine offers maximum flexibility for constantly changing packing units with different heights and a weight of up to 160 kg.

**New: Emba-TrayTec® Plus! Cushioning and retention in one.**

**Standard up to 160 kg.**

### Emba-Buzz n' Pack® - Packing on command

Page 114-119

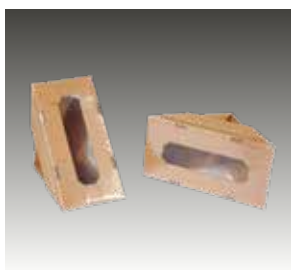


The Decentralized Packaging Solution  
Up to 4 packaging cycles per minute!

**For products weighing up to 8 kg.**

### Special Packaging - The solution for “special” projects

Page 120-139



Our special packaging for screens is based on the suspension packaging Emba-Swing®. The corner suspension cushions can accommodate different display formats ranging from 32 to 60 inches. This version is especially useful in cases where a stand is pre-installed.

For laptops and netbooks we offer ideal standard packaging for sizes from 12” to 17” with optional accessory compartments.

### Shipping boxes - The wide world of outer cartons

Page 140-141



The use of extra strong corrugated board ensure highest safety also for shipping via postal service. Transport boxes with crash-lock base mean time savings of up to 80 % compared to traditional boxes. Due to high production volumes the best price is guaranteed.

## NORM Line

The universal film which covers everything. The material is based on PU and clings perfectly to the different product contours. Depending on the product line this film type comes in different standard material thicknesses.

Features:

- highly flexible
- unprecedented shrink behaviour after stretching
- material based on PU



## MAXI Line

For very flat or heavy products with very high surface weight.

Features:

- film with 100 % higher strength compared to NORM Line
- material based on PU
- higher tensile force to securely hold your product in position



## ECO Line

The better-priced film type for light and flat products.

The use of a special stretch film on a cheaper material basis reduces the total price of this packaging even further.

This low-priced film has a high retention force with very good stretch properties and shrink behaviour after stretching.

Ideally suited for one-way shipping with high throughput volumes.

Features:

- strong film and identical corrugated cardboard of high quality
- material based on PE



## ESD Line

In order to protect your products from short-circuits due to electrostatic discharge we have developed a film for the most demanding requirements.

Features:

- antistatic film with  $10^8$  to  $10^{11}$  Ohm surface resistance and for voltages of up to 50 Volts.
- for fast elimination of electric current to prevent damage
- Material based on PU
- corrugated cardboard with ESD protection (graphite coated) upon request



# INTERCEPT® Technology

Reliable corrosion protection



## Features

- Perfectly coordinated packaging system for many corrosion-sensitive products
- Dry, temporary corrosion protection for up to 15 years

## Advantages

- No oiling necessary
- Safe transport and corrosion protection in one
- Fast packaging times
- Reduction in packaging variety
- Less storage volume
- Indicator effect

## Benefits

- Savings on additional corrosion protection measures
- Proven packaging system
- High cost savings
- Gain in storage space

Protective packaging supplemented with Intercept® Technology optimises and simplifies your packaging processes. For example, it replaces the time-consuming process of oiling and de-oiling.

Intercept® Technology creates its own atmosphere in which corrosion and/or static charge have no chance. **No additional measures are required.**

Alternatively, you can also use CORROSION Intercept® foam to provide your products with excellent protection against corrosion and harmful gases. Whether you use film or foam, the use of proven Intercept® technologies ensures that your products remain permanently protected against corrosion and static charge.



time- and  
cost-efficient



ready to use  
without oiling/de-oiling



Environmentally friendly  
Can be disposed of  
with waste paper



100%  
secure

Whether foil or foam with Intercept® technology – together with packaging from Emba-Protec®, the unbeatable solution for the safe shipment of corrosion-prone products for the automotive, energy and electronics, aviation and military, semi-finished parts, museum and archiving industries, and many more.

### CORROSION INTERCEPT® Foam



- Neutralisation of harmful gases in the smallest of spaces
- Integration into existing packaging solutions
- Efficient corrosion protection for materials without additional ESD requirements
- **Indicator effect** when material is completely saturated, changes colour
- Award-winning technology, 100% reliable
- Various sizes available

### CORROSION INTERCEPT® Foil



- Copper-colored, transparent material with countless applications, depending on thickness
- Corrosion protection for materials without additional ESD requirements
- **Indicator effect** when material is completely saturated

### STATIC INTERCEPT® Foil



- Black, copper-containing foil on both sides, which offers protection against corrosion as well as ESD
- Ideal material for long-term storage up to 15 years

Whether you rely on our standard products, our TrayTec® or Buzz n'Pack® systems, or a custom development from Emba-Protec, talk to us about using Intercept® technologies as reliable corrosion protection.

So that your products continue to be optimally protected!

**A foam format measuring 45 x 45 x 10 mm  
protects a volume of up to 2 m³.**





Retention Packaging  
Protection  
fast handling  
reduction process costs  
environment-friendly  
reusable  
highly flexible

Emba-flex®

light and flat products up to 4 kg  
for most unusual product contours  
reducing amount of packaging

# Emba-flex<sup>®</sup>

## Retention Packaging





### **Application:**

Light and flat products of up to 4.0 kg (normally), requiring medium level protection

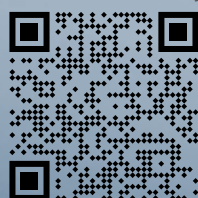
### **Features:**

The packaging will adapt to even the most unusual product contours

### **Advantages:**

The amount of packaging types is substantially reduced

### **Assembly Guide:**



## Retention Packaging

### Emba-Flex® - The retention packaging

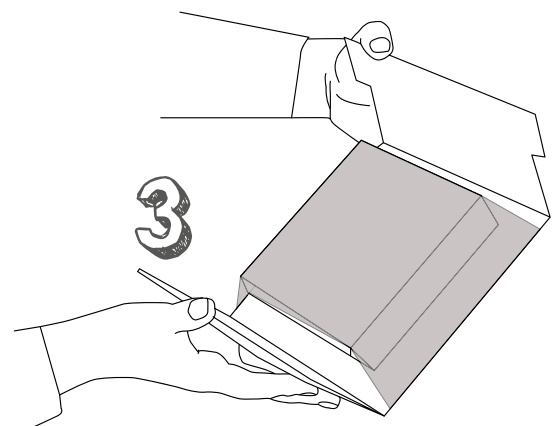
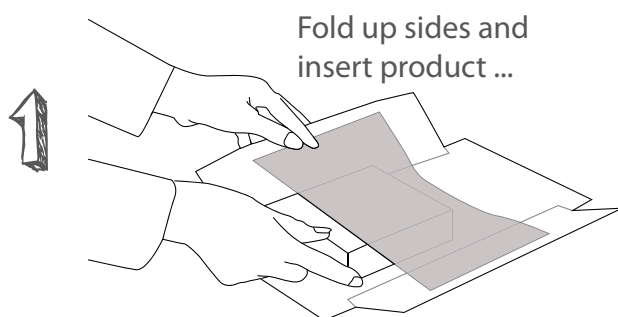
- high-level protection for the most varied products and contours
- reduction of packaging diversity by up to 90 %
- transport boxes with crash-lock base guarantee fast handling
- quick fastening avoids box gluing
- reduction of process costs (procurement, storing, shipment)
- environment-friendly, can be disposed of with waste paper
- reusable (e.g. for repair services)
- professional appearance
- economical due to standard program (no tool costs)



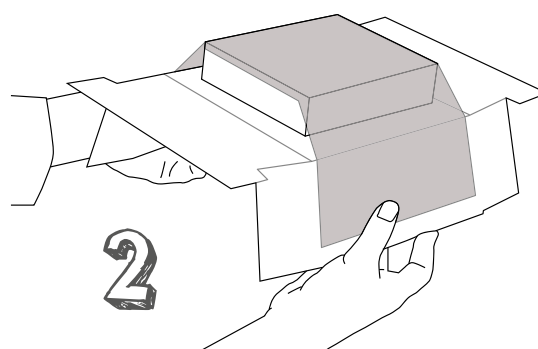
### The method

The special stretch mechanism ensures that the film fixes the product firmly to the corrugated cardboard format, so avoiding any slipping. The highly flexible but practically tear-free stretch film clings perfectly to the different product contours. This reduces your packaging diversity by up to 90 %.

The special film is extremely adaptable and has unprecedented shrink behaviour after stretching. Even when stretched to an enormous extent the film almost returns back into it's original shape without a decrease in retention force.



fold down both sides completely  
--> foil stretched ...



## Retention Packaging

### Application examples

Emba-Flex® adapts optimally to the most varied product contours like a second skin. New products from your range can often be packed immediately with existing packaging sizes. Also products of different sizes fit into the same-sized packaging solution.

Also product accessories are packed professionally and securely in accessory compartments or hollow bottom. Whether it's a manual, cables or remote controls, everything is securely fixed in position.

In addition to our immediate delivery program listed in the table below we also offer existing special packaging as well as new developments according to your individual needs.



### The immediate delivery program

| Maximum product size | Article code | Max. product weight | Page | Maximum product size | Article code | Max. product weight | Page |
|----------------------|--------------|---------------------|------|----------------------|--------------|---------------------|------|
| 100 x 100 x 40 mm    | FL 101004    | ca. 0,5 kg          | 24   | 290 x 260 x 60 mm    | FL 292606    | ca. 2,5 kg          | 32   |
| 120 x 80 x 40 mm     | FL 120804    | ca. 0,5 kg          | 24   | 300 x 90 x 50 mm     | FL 300905    | ca. 0,8 kg          | 33   |
| 120 x 90 x 50 mm     | FL 120905    | ca. 0,8 kg          | 24   | 300 x 200 x 70 mm    | FL 302007    | ca. 2,5 kg          | 33   |
| 140 x 80 x 40 mm     | FL 140804    | ca. 0,5 kg          | 25   | 300 x 200 x 100 mm   | FL 302010    | ca. 2,5 kg          | 33   |
| 140 x 100 x 40 mm    | FL 141004    | ca. 1,0 kg          | 25   | 300 x 220 x 140 mm   | FL 302214    | ca. 2,5 kg          | 34   |
| 150 x 150 x 40 mm    | FL 151504    | ca. 1,5 kg          | 25   | 300 x 300 x 80 mm    | FL 303008    | ca. 3,0 kg          | 34   |
| 150 x 150 x 60 mm    | FL 151506    | ca. 1,5 kg          | 26   | 310 x 210 x 40 mm    | FL 312104    | ca. 2,5 kg          | 34   |
| 160 x 100 x 20 mm    | FL 161002    | ca. 0,5 kg          | 26   | 310 x 220 x 40 mm    | FL 312204    | ca. 3,0 kg          | 35   |
| 160 x 120 x 40 mm    | FL 161204    | ca. 0,5 kg          | 26   | 340 x 200 x 120 mm   | FL 342012    | ca. 2,0 kg          | 35   |
| 160 x 120 x 50 mm    | FL 161205    | ca. 0,5 kg          | 27   | 340 x 250 x 50 mm    | FL 342505    | ca. 3,5 kg          | 35   |
| 160 x 120 x 100 mm   | FL 161210    | ca. 1,5 kg          | 27   | 350 x 200 x 80 mm    | FL 352008    | ca. 2,0 kg          | 36   |
| 180 x 90 x 60 mm     | FL 180906    | ca. 0,8 kg          | 27   | 350 x 250 x 40 mm    | FL 352504    | ca. 2,0 kg          | 36   |
| 180 x 100 x 40 mm    | FL 181004    | ca. 1,0 kg          | 28   | 360 x 240 x 100 mm   | FL 362410    | ca. 2,5 kg          | 36   |
| 180 x 100 x 60 mm    | FL 181006    | ca. 1,0 kg          | 28   | 360 x 260 x 40 mm    | FL 362604    | ca. 3,0 kg          | 37   |
| 190 x 160 x 60 mm    | FL 191606    | ca. 1,0 kg          | 28   | 380 x 250 x 80 mm    | FL 382508    | ca. 3,0 kg          | 37   |
| 200 x 200 x 60 mm    | FL 202006    | ca. 1,5 kg          | 29   | 400 x 200 x 100 mm   | FL 402010    | ca. 3,0 kg          | 37   |
| 200 x 200 x 80 mm    | FL 202008    | ca. 1,5 kg          | 29   | 400 x 250 x 100 mm   | FL 402510    | ca. 3,5 kg          | 38   |
| 220 x 150 x 60 mm    | FL 221506    | ca. 1,5 kg          | 29   | 400 x 300 x 50 mm    | FL 403005    | ca. 4,5 kg          | 38   |
| 220 x 150 x 80 mm    | FL 221508    | ca. 1,5 kg          | 30   | 400 x 300 x 60 mm    | FL 403006    | ca. 2,5 kg          | 38   |
| 230 x 150 x 20 mm    | FL 231502    | ca. 1,0 kg          | 30   | 400 x 320 x 110 mm   | FL 403211    | ca. 5,0 kg          | 39   |
| 230 x 180 x 60 mm    | FL 231806    | ca. 1,5 kg          | 30   | 470 x 300 x 50 mm    | FL 473005    | ca. 4,5 kg          | 39   |
| 240 x 100 x 40 mm    | FL 241004    | ca. 1,5 kg          | 31   | 500 x 320 x 150 mm   | FL 503215    | ca. 5,0 kg          | 39   |
| 250 x 250 x 60 mm    | FL 252506    | ca. 2,0 kg          | 31   | 500 x 400 x 100 mm   | FL 504010    | ca. 5,0 kg          | 40   |
| 250 x 250 x 80 mm    | FL 252508    | ca. 2,0 kg          | 31   | 510 x 230 x 50 mm    | FL 512305    | ca. 2,5 kg          | 40   |
| 280 x 160 x 70 mm    | FL 281607    | ca. 2,0 kg          | 32   | 510 x 300 x 50 mm    | FL 513005    | ca. 2,5 kg          | 40   |
| 280 x 180 x 120 mm   | FL 281812    | ca. 2,5 kg          | 32   |                      |              |                     |      |

Available in sets of 50 and more (1 insert, 1 box). Special sizes on request.

## Retention Packaging



FL 101004

Maximum product size: **100 x 100 x 40 mm**

### Product data

Overall transport box dimensions 145 x 120 x 67 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality E 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 101004 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 101004 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 101004 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: sensors, switches, miniature devices, rotary encoder  
Max. product weight: up to 500 gr.



FL 120804

Maximum product size: **120 x 80 x 40 mm**

### Product data

Overall transport box dimensions  
210 x 170 x 97 mm  
Fefco 0713 with crash-lock base and  
closing lid, Quality E 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

**with accessory  
compartment**

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 120804 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 120804 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 120804 EC4S</b> | ECOLine 40, PE film 40 microns     |

Einsatzbereich: Handys, miniature devices  
Max. product weight: up to 500 gr.



FL 120905

Maximum product size: **120 x 90 x 50 mm**

### Product data

Overall transport box dimensions 158 x 132 x 82 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 120905 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 120905 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 120905 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: sensors, displays, miniature devices, rotary encoder  
Max. product weight: up to 800 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 140804

Maximum product size: **140 x 80 x 40 mm**

### Product data

Overall transport box dimensions 170 x 116 x 67 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality E 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code                                                     | Version                            |
|------------------------------------------------------------------|------------------------------------|
| <b>FL 140804 S</b>                                               | NORMLine 50, PU film 50 microns    |
| <b>FL 140804 ESDS</b>                                            | ESDLine 50, PU film ESD 50 microns |
| <b>FL 140804 EC6S</b>                                            | ECOLine 50, PE film 50 microns     |
| <b>Transport box alternatively</b> available with quality B.130! |                                    |

Applications: mobile phones, displays, switches  
Max. product weight: up to 500 gr.



FL 141004

Maximum product size: **140 x 100 x 40 mm**

### Product data

Overall transport box dimensions 176 x 176 x 84 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 141004 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 141004 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 141004 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: sensors, switches, miniature devices, displays  
Max. product weight: up to 1000 gr.



FL 151504

Maximum product size: **150 x 150 x 40 mm**

### Product data

Overall transport box dimensions 199 x 183 x 86 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 151504 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 151504 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 151504 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 151504 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: displays, miniature devices, instruments  
Max. product weight: up to 1500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 151506

Maximum product size: **150 x 150 x 60 mm**

### Product data

Overall transport box dimensions 199 x 183 x 109 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 151506 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 151506 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 151506 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 151506 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: displays, miniature devices, porcelain, instruments  
Max. product weight: up to 1500 gr.



FL161002

Maximum product size: **160 x 100 x 20 mm**

### Product data

Overall transport box dimensions  
246 x 146 x 46 mm  
Fefco 0427 hinged lid box  
Quality E 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 161002 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 161002 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 161002 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: Printed circuit boards  
Max. product weight: up to 500 gr.



FL 161204

Maximum product size: **160 x 120 x 40 mm**

### Product data

Overall transport box dimensions 182 x 165 x 52 mm  
Fefco 0427 hinged lid box  
Quality E 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 161204 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 161204 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 161204 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: Printed circuit boards  
Max. product weight: up to 500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **160 x 120 x 50 mm**

### Product data

Overall transport box dimensions 182 x 165 x 75 mm  
 Fefco 0427 hinged lid box  
 Quality E 1.20  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 161205 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 161205 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 161205 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: printed circuit boards, hard disk drives  
 Max. product weight: up to 500 gr.



Maximum product size: **160 x 120 x 100 mm**

### Product data

Overall transport box dimensions 200 x 167 x 139 mm  
 Fefco 0713 with crash-lock base and closing lid  
 Quality B 1.30  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 161210 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 161210 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 161210 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: displays, mechatronics, controller, glass products  
 Max. product weight: up to 1500 gr.



Maximum product size: **180 x 90 x 60 mm**

### Product data

Overall transport box dimensions 196 x 115 x 96 mm  
 Fefco 0713 with crash-lock base and closing lid  
 Quality B 1.30  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 180906 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 180906 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 180906 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: mobile phones, mechatronics, miniature devices  
 Max. product weight: up to 800 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **180 x 100 x 40 mm**

### Product data

Overall transport box dimensions 218 x 148 x 76 mm  
Fefco 0713 with crash-lock base  
Quality E 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

### Article code

### Version

|                       |                                    |
|-----------------------|------------------------------------|
| <b>FL 181004 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 181004 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181004 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: hard disk drives, displays, mechatronics, miniature devices. Max. product weight: up to 1000 gr.



Maximum product size: **180 x 100 x 60 mm**

### Product data

Overall transport box dimensions 214 x 156 x 109 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

### Article code

### Version

|                       |                                    |
|-----------------------|------------------------------------|
| <b>FL 181006 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 181006 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181006 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: displays, small devices, controllers, mechatronics  
Max. product weight: up to 1000 gr.



Maximum product size: **190 x 160 x 60 mm**

### Product data

Overall transport box dimensions 224 x 224 x 104 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

### Article code

### Version

|                       |                                    |
|-----------------------|------------------------------------|
| <b>FL 191606 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 191606 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 191606 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: displays, small devices, controllers, mechatronics  
Max. product weight: up to 1000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 202006

Maximum product size: **200 x 200 x 60 mm**

### Product data

Overall transport box dimensions 249 x 235 x 99 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 202006 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 202006 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 202006 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 202006 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: displays, controllers, small devices, instruments  
Max. product weight: up to 1500 gr.



FL 202008

Maximum product size: **200 x 200 x 80 mm**

### Product data

Overall transport box dimensions 249 x 235 x 119 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 202008 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 202008 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 202008 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 202008 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: displays, controller, small devices, instruments  
Max. product weight: up to 1500 gr.



FL 221506

Maximum product size: **220 x 150 x 60 mm**

### Product data

Overall transport box dimensions 255 x 199 x 99 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 221506 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 221506 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 221506 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 221506 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: CD/DVD drives, controllers, small devices  
Max. product weight: up to 1500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 221508

Maximum product size: **220 x 150 x 80 mm**

### Product data

Overall transport box dimensions 255 x 199 x 119 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 221508 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 221508 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 221508 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 221508 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: CD/DVD drives, controllers, small devices  
Max. product weight: up to 1500 gr.



FL 231502

Maximum product size: **230 x 150 x 20 mm**

### Product data

Overall transport box dimensions 338 x 211 x 47 mm  
Fefco 0427 whinged lid box and accessory compartment, Quality E1.40  
Scope of delivery = Fixing insert 1 unit, Transport box 1 unit

with accessory compartment

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 231502 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 231502 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 231502 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 231502 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: tablets, plates  
Max. product weight: up to 1000 gr.



FL 231806

Maximum product size: **230 x 180 x 60 mm**

### Product data

Overall transport box dimensions 300 x 210 x 89 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 231806 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 231806 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 231806 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 231806 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: CD/DVD drives, controllers, small devices  
Max. product weight: up to 1500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **240 x 100 x 40 mm**

### Product data

Overall transport box dimensions  
306 x 153 x 92 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 241004 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 241004 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 241004 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, control panels, instruments, plates  
Max. product weight: up to 1500 gr.



Maximum product size: **250 x 250 x 60 mm**

### Product data

Overall transport box dimensions 300 x 295 x 108 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 252506 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 252506 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 252506 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 252506 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments  
Max. product weight: up to 2000 gr.



Maximum product size: **250 x 250 x 80 mm**

### Product data

Overall transport box dimensions 300 x 295 x 138 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 252508 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 252508 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 252508 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 252508 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments  
Max. product weight: up to 2000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 281607

Maximum product size: **280 x 160 x 70 mm**

### Product data

Overall transport box dimensions 335 x 232 x 121 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 281607 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 281607 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 281607 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: 1 DIN car audio units, controllers, small devices  
Max. product weight: up to 2000 gr.



FL 281812

Maximum product size: **280 x 180 x 120 mm**

### Product data

Overall transport box dimensions 325 x 297 x 178 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 281812 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 281812 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 281812 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 281812 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: double DIN GPS units, control panels, instruments  
Max. product weight: up to 2500 gr.



FL 292606

Maximum product size: **290 x 260 x 60 mm**

### Product data

Overall transport box dimensions  
452 x 339 x 98 mm  
Fefco 0427 hinged lid box, Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 292606 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 292606 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 292606 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 292606 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: printed circuit boards, control panels, instruments  
Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 300905

Maximum product size: **300 x 90 x 50 mm**

### Product data

Overall transport box dimensions 352 x 143 x 72 mm  
Fefco 0421 hinged lid box  
Quality B 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 300905 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 300905 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 300905 EC6S</b> | ECOLine 50, PE film 50 microns     |

Applications: batteries, probes, endoscopes  
Max. product weight: up to 800 gr.



FL 302007

Maximum product size: **300 x 200 x 70 mm**

### Product data

Overall transport box dimensions 344 x 251 x 118 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 302007 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 302007 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 302007 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 302007 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments, armatures  
Max. product weight: up to 2500 gr.



FL 302010

Maximum product size: **300 x 200 x 100 mm**

### Product data

Overall transport box dimensions 344 x 251 x 148 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 302010 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 302010 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 302010 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 302010 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments, armatures  
Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **300 x 220 x 140 mm**

### Product data

Overall transport box dimensions 349 x 339 x 200 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 302214 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 302214 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 302214 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 302214 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: panels, controllers, control panels, instruments  
Max. product weight: up to 2500 gr.



Maximum product size: **300 x 300 x 80 mm**

### Product data

Overall transport box dimensions 400 x 343 x 126 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 303008 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 303008 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 303008 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 303008 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: laptops, controllers, control panels, instruments  
Max. product weight: up to 3000 gr.



Maximum product size: **310 x 210 x 40 mm**

### Product data

Overall transport box dimensions 376 x 268 x 96 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality B 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 312104 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 312104 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 312104 EC5S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 312104 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 10" to 13" netbooks, panels, control panels, instruments. Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **310 x 220 x 40 mm**

### Product data

Overall transport box dimensions 368 x 288 x 116 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 312204 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 312204 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 312204 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 312204 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 10" to 12" netbooks, panels, control panels, instruments. Max. product weight: up to 3000 gr.



Maximum product size: **340 x 200 x 120 mm**

### Product data

Overall transport box dimensions 389 x 272 x 162 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 342012 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 342012 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 342012 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 342012 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: airbags, controllers, control panels, instruments  
Max. product weight: up to 2000 gr.



Maximum product size: **340 x 250 x 50 mm**

### Product data

Overall transport box dimensions 414 x 346 x 138 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 342505 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 342505 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 342505 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 342505 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 15" laptops, controllers, control panels, instruments, panels. Max. product weight: up to 3500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



FL 352008

Maximum product size: **350 x 200 x 80 mm**

### Product data

Overall transport box dimensions 394 x 292 x 123 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 352008 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 352008 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 352008 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 352008 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments, panels  
Max. product weight: up to 2000 gr.



FL 352504

Maximum product size: **350 x 250 x 40 mm**

### Product data

Overall transport box dimensions 435 x 315 x 115 mm  
Fefco 0427 hinged lid box  
Quality C 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 352504 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 352504 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 352504 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 352504 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: flat panels, TFT displays, technical glass products  
Max. product weight: up to 2000 gr.



FL 362410

Maximum product size: **360 x 240 x 100 mm**

### Product data

Overall transport box dimensions 434 x 306 x 171 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 362410 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 362410 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 362410 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 362410 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments  
Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **360 x 260 x 40 mm**

### Product data

Overall transport box dimensions  
436 x 318 x 100 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit, Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 362604 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 362604 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 362604 EC5S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 362604 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 15" laptops, controllers, instruments, plates  
Max. product weight: up to 3500 gr.



Maximum product size: **380 x 250 x 80 mm**

### Product data

Overall transport box dimensions  
448 x 334 x 140 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = Fixing insert 1 unit, Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 382508 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 382508 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 382508 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 382508 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, instruments, plates  
Max. product weight: up to 3000 gr.



Maximum product size: **400 x 200 x 100 mm**

### Product data

Overall transport box dimensions 477 x 272 x 154 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 402010 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 402010 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 402010 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 402010 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, control panels, instruments, assemblies  
Max. product weight: up to 3000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **400 x 250 x 100 mm**

### Product data

Overall transport box dimensions 547 x 335 x 170 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 402510 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 402510 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 402510 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 402510 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: DVD recorders, panels, instruments  
Max. product weight: up to 3500 gr.



Maximum product size: **400 x 300 x 50 mm**

### Product data

Overall transport box dimensions 556 x 421 x 168 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 403005 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 403005 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 403005 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 403005 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 17" laptops, controllers, instruments, flat panels  
Max. product weight: up to 4500 gr.



Maximum product size: **400 x 300 x 60 mm**

### Product data

Overall transport box dimensions 552 x 339 x 88 mm  
Fefco 0427 hinged lid box  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 403006 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 403006 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 403006 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 403006 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: controllers, instruments, flat panels  
Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **400 x 320 x 110 mm**

### Product data

Overall transport box dimensions 538 x 380 x 190 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 403211 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 403211 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 403211 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 403211 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: DCD recorders, 17" laptops, panels, instruments  
Max. product weight: up to 5000 gr.



Maximum product size: **470 x 300 x 50 mm**

### Product data

Overall transport box dimensions 566 x 366 x 112 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 473005 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 473005 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 473005 EC5S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 473005 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: 17" laptops, DCD recorders, panels, instruments  
Max. product weight: up to 4500 gr.



Maximum product size: **500 x 320 x 150 mm**

### Product data

Overall transport box dimensions 615 x 395 x 228 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 503215 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 503215 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 503215 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 503215 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: printed circuit boards, panels, control panels, instruments. Max. product weight: up to 5000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Retention Packaging



Maximum product size: **500 x 400 x 100 mm**

### Product data

Overall transport box dimensions 635 x 480 x 188 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 504010 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 504010 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 504010 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 504010 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: printed circuit boards, panels, control panels, instruments. Max. product weight: up to 5000 gr.



Maximum product size: **510 x 230 x 50 mm**

### Product data

Overall transport box dimensions  
592 x 309 x 88 mm  
Fefco 0427 hinged lid box, Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 512305 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 512305 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 512305 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 512305 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: printed circuit boards, panels, control panels, instruments. Max. product weight: up to 2500 gr.



Maximum product size: **510 x 300 x 50 mm**

### Product data

Overall transport box dimensions  
592 x 384 x 88 mm  
Fefco 0427 hinged lid box, Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

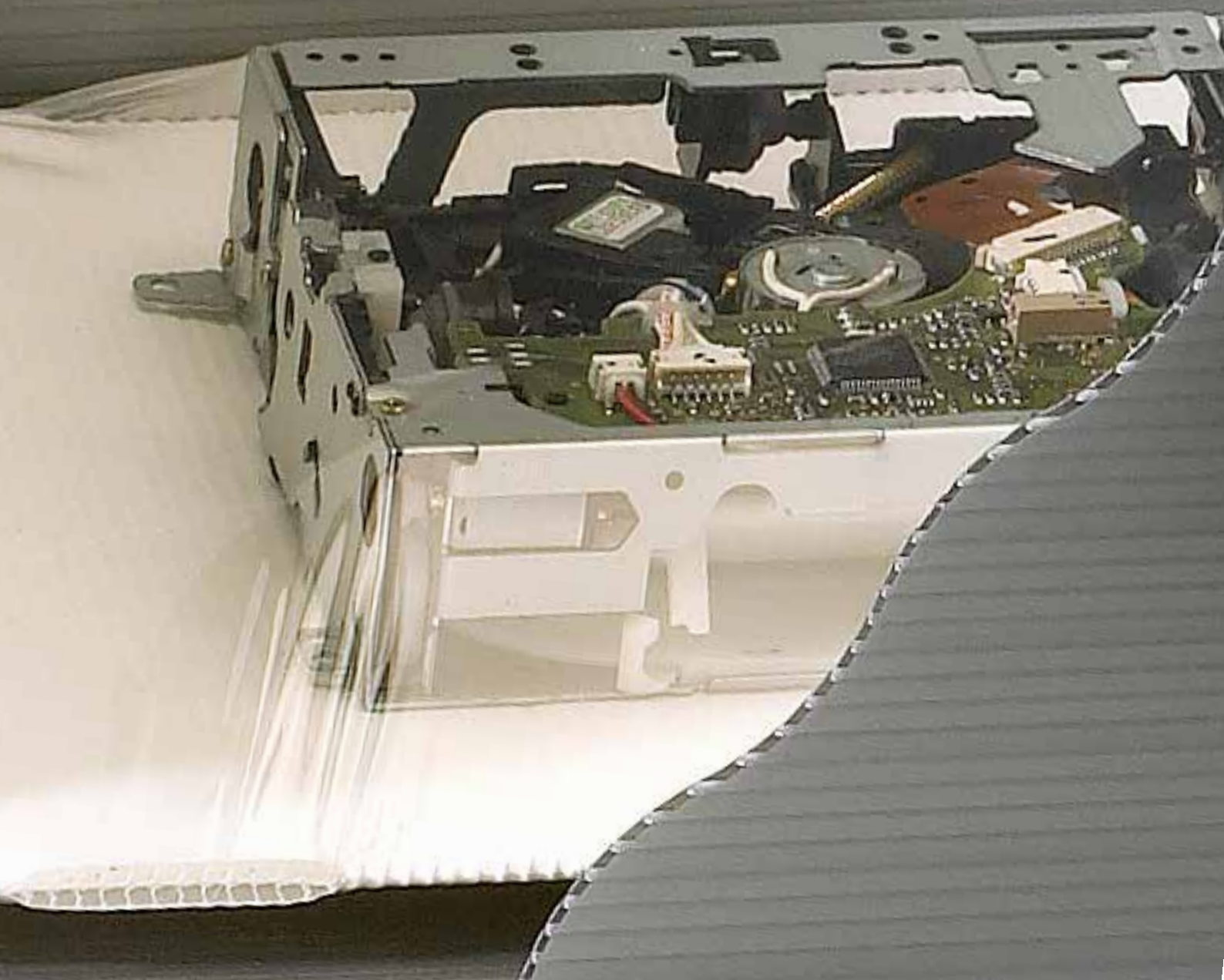
| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 513005 S</b>    | NORMLine 50, PU film 50 microns    |
| <b>FL 513005 ESDS</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 513005 EC6S</b> | ECOLine 50, PE film 50 microns     |
| <b>FL 513005 MS</b>   | MAXILine 100, PU film 100 microns  |

Applications: printed circuit boards, panels, control panels, instruments. Max. product weight: up to 2500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.



Things will be spick and span  
now ...

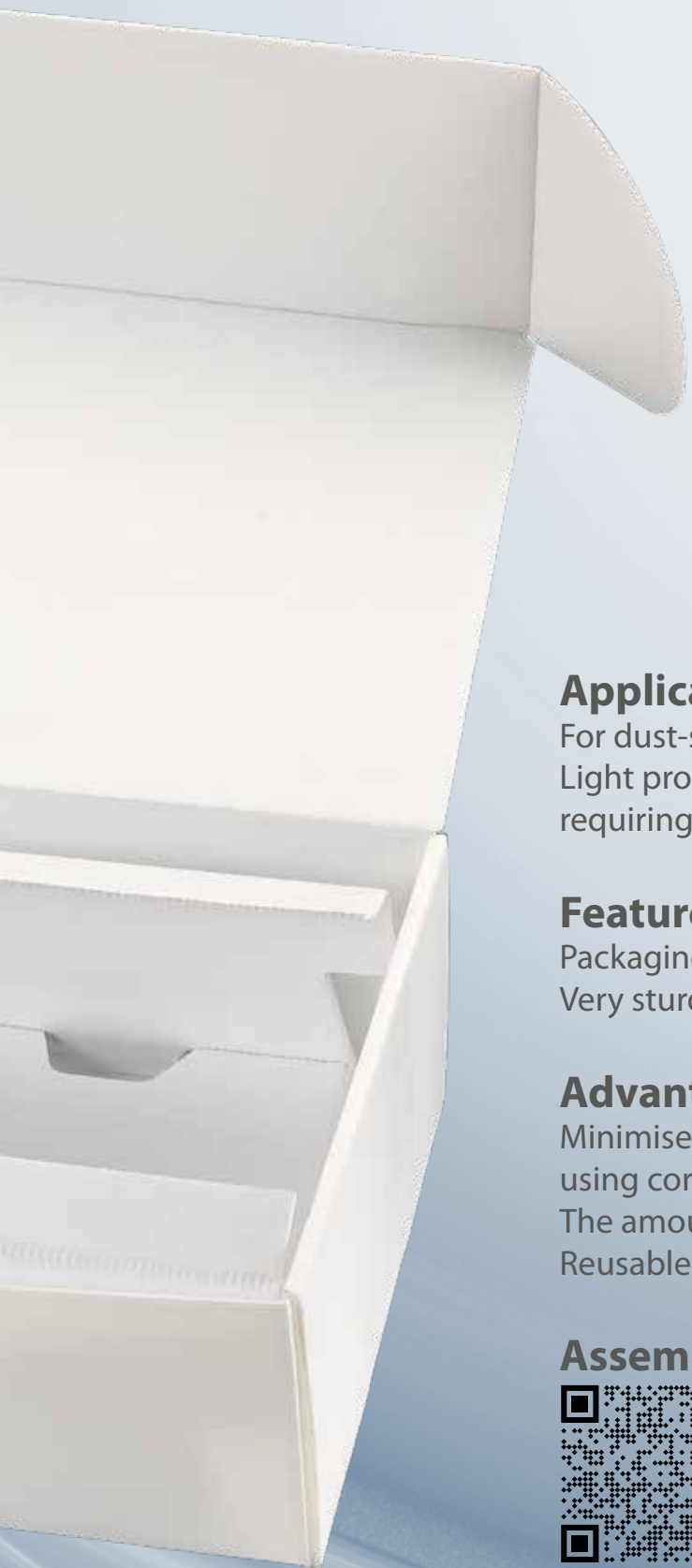


plastic retention  
packaging  
dust-sensitive goods  
of up to 4.0 kg (normally) as  
robust plastic packaging material  
Emba-flex reusable  
EmbaLine®  
minimises the amount of fine particles  
reducing the amount of packaging  
for different product contours

# Emba-Flex Clean Line®

## Plastic Retention Packaging





### **Application:**

For dust-sensitive goods.  
Light products of up to 4.0 kg (normally),  
requiring medium level protection

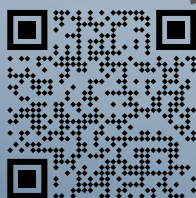
### **Features:**

Packaging made of pure twinwall polypropylene  
Very sturdy

### **Advantages:**

Minimises the amount of fine particles usually present when  
using corrugated board packaging  
The amount of packaging types is substantially reduced  
Reusable

### **Assembly Guides:**



## Plastic retention packaging

### Emba-Flex CLEAN Line®

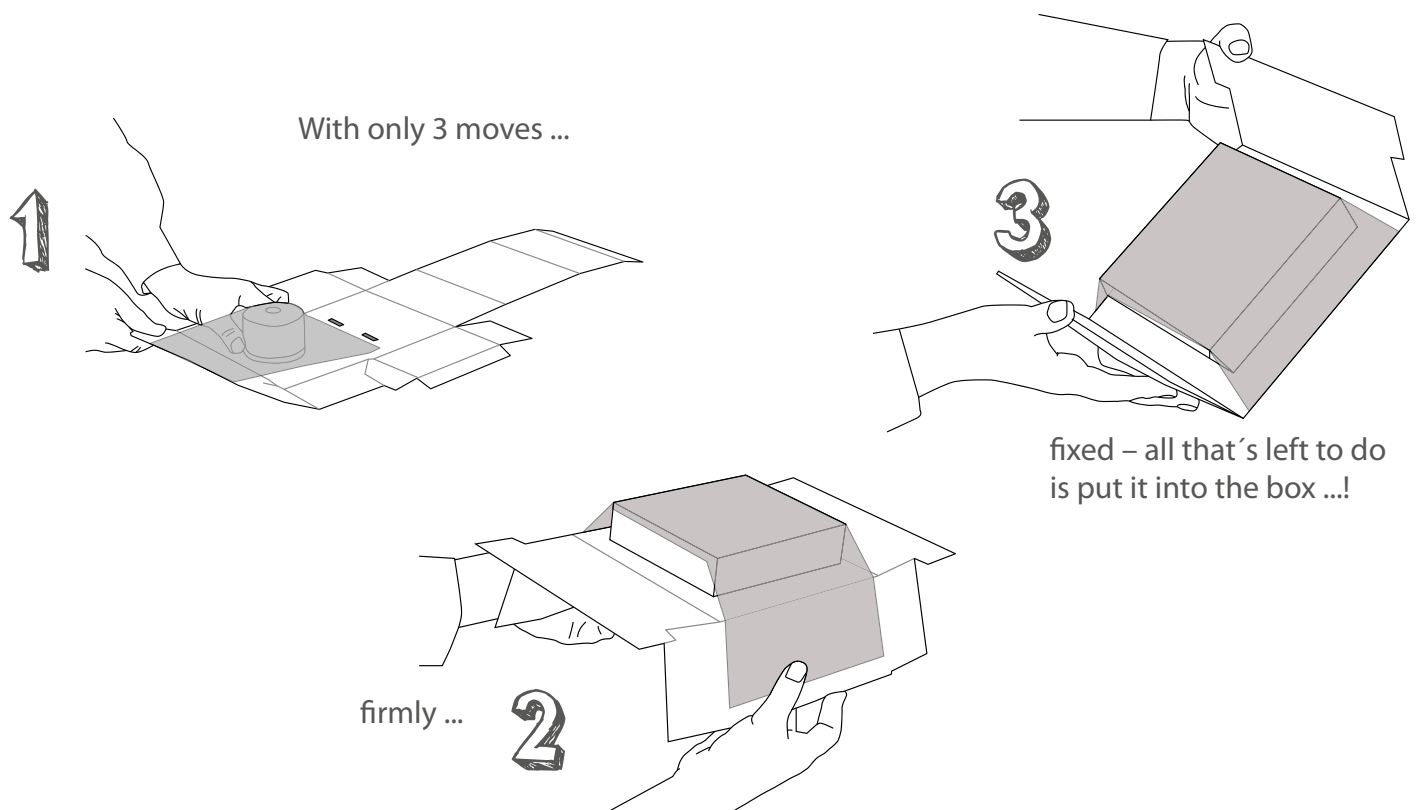
- made of twinwall polypropylene sheet
- high degree of protection for various product contours
- reduction of packaging diversity by up to 90 %
- minimises the amount of fine particles usually present when using corrugated board packaging
- upon request also available as cleanroom version cleaned according to class 7
- packaging of high visual quality
- robust and reusable packaging



### The method

The special fold mechanism ensures that the stretch film fixes the product firmly to the corrugated cardboard format, so avoiding any slipping. The highly flexible but practically tear-free stretch film clings perfectly to the different product contours. This reduces your packaging diversity by up to 90 %.

The special PU-film is highly adaptable and has unprecedented shrink behaviour after stretching. Even when stretched to an enormous extent the film almost returns back into its original shape without a decrease in retention force.



## Plastic retention packaging

### Application examples

To meet the highest requirements, we have developed a new product line based on our proven and successful packaging systems Emba-Flex® (retention packaging) and Emba-Swing® (suspension packaging).

(Also available as Emba-Swing® membrane solution.)

The idea was to offer a perfect solution for e.g. dental technology applications, precision engineering applications and chip technology applications, where dust-free packaging systems are necessary.

To a large extent, the use of plastic packaging material minimises the amount of fine particles usually present when using corrugated board packaging.



### The immediate delivery program

| Maximum product size (mm) | Article code   | Product data on page |
|---------------------------|----------------|----------------------|
| 120 x 70 x 40 mm          | FL 120704 CLES | 48                   |
| 200 x 140 x 70 mm         | FL 201407 CLES | 48                   |
| 280 x 190 x 90 mm         | FL 281909 CLES | 48                   |
| 390 x 320 x 110 mm        | FL 393211 CLES | 49                   |

Available in sets of 50 and more (1 insert, 1 box). Special sizes on request.



## Plastic retention packaging



### Product data

Overall transport box dimensions 171 x 112 x 72 mm  
 Fefco 0427 hinged lid box  
 Quality: Twinwall polypropylene, white, anti-static  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 120704 CLES</b> | ESDLine 50, PU film ESD 50 microns |

Maximum product size: **120 x 70 x 40 mm**



### Product data

Overall transport box dimensions 254 x 194 x 120 mm  
 Fefco 0427 hinged lid box  
 Quality: Twinwall polypropylene, white, anti-static  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 201407 CLES</b> | ESDLine 75, PU film ESD 75 microns |

Maximum product size: **200 x 140 x 70 mm**



### Product data

Overall transport box dimensions 343 x 245 x 145 mm  
 Fefco 0427 hinged lid box  
 Quality: Twinwall polypropylene, white, anti-static  
 Scope of delivery = Fixing insert 1 unit,  
 Transport box 1 unit

| Article code          | Version                            |
|-----------------------|------------------------------------|
| <b>FL 281909 CLES</b> | ESDLine 75, PU film ESD 75 microns |

Maximum product size: **280 x 190 x 90 mm**

## Plastic retention packaging



FL 393211 CL

### Product data

Overall transport box dimensions 516 x 370 x 200 mm

Fefco 0201 folding box with base and cover flaps

Quality: Twinwall polypropylene, white, anti-static

Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

### Article code

### Version

**FL 393211 CLES**

ESDLine 100, PU film ESD 100 microns

Maximum product size: **390 x 320 x 110 mm**

# Emba-flex® ECO

## Now we're totally eco!

### Application:

For flat, lightweight items that weigh up to 3 kg (generally) and have the same design.

### Features:

The packaging is completely free from film and foam. The product is firmly fixed in the box.

### Advantages:

Your product is perfectly protected during shipment. This pure, paper-based single-material solution makes a significant contribution to environmental protection. Your customers will be impressed by your "totally eco" approach.

**European Patent EP 3 892 556**  
The only patented fixation packaging  
on a pure paper basis!

## The pure single-material solution

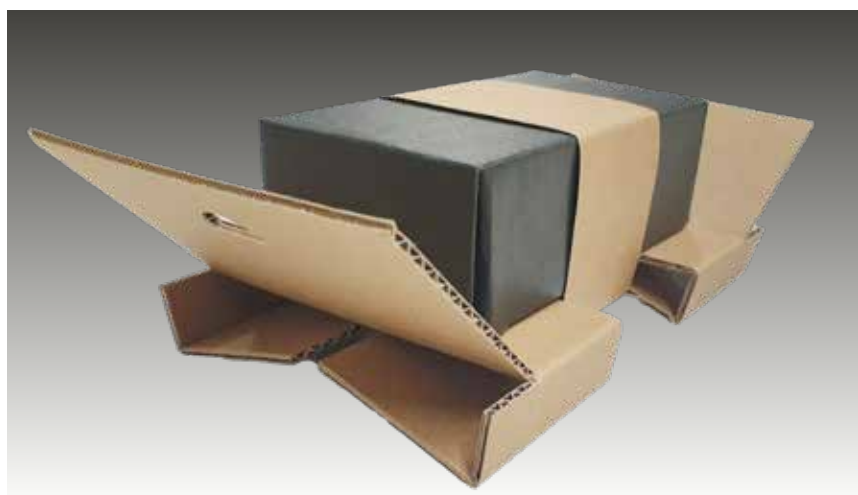
Shipping sensitive products used to involve a lot of effort. It took time and expensive packaging material (usually made of foam or film) to prepare sensitive and high-quality products for despatch. Emba-Protec has solved both problems with a new innovative packaging! You have already achieved a great deal with the retention packaging from our company. Perfect protection at a reasonable cost. Now we have been able to replace the film with pure, **high-quality kraft liner paper**.

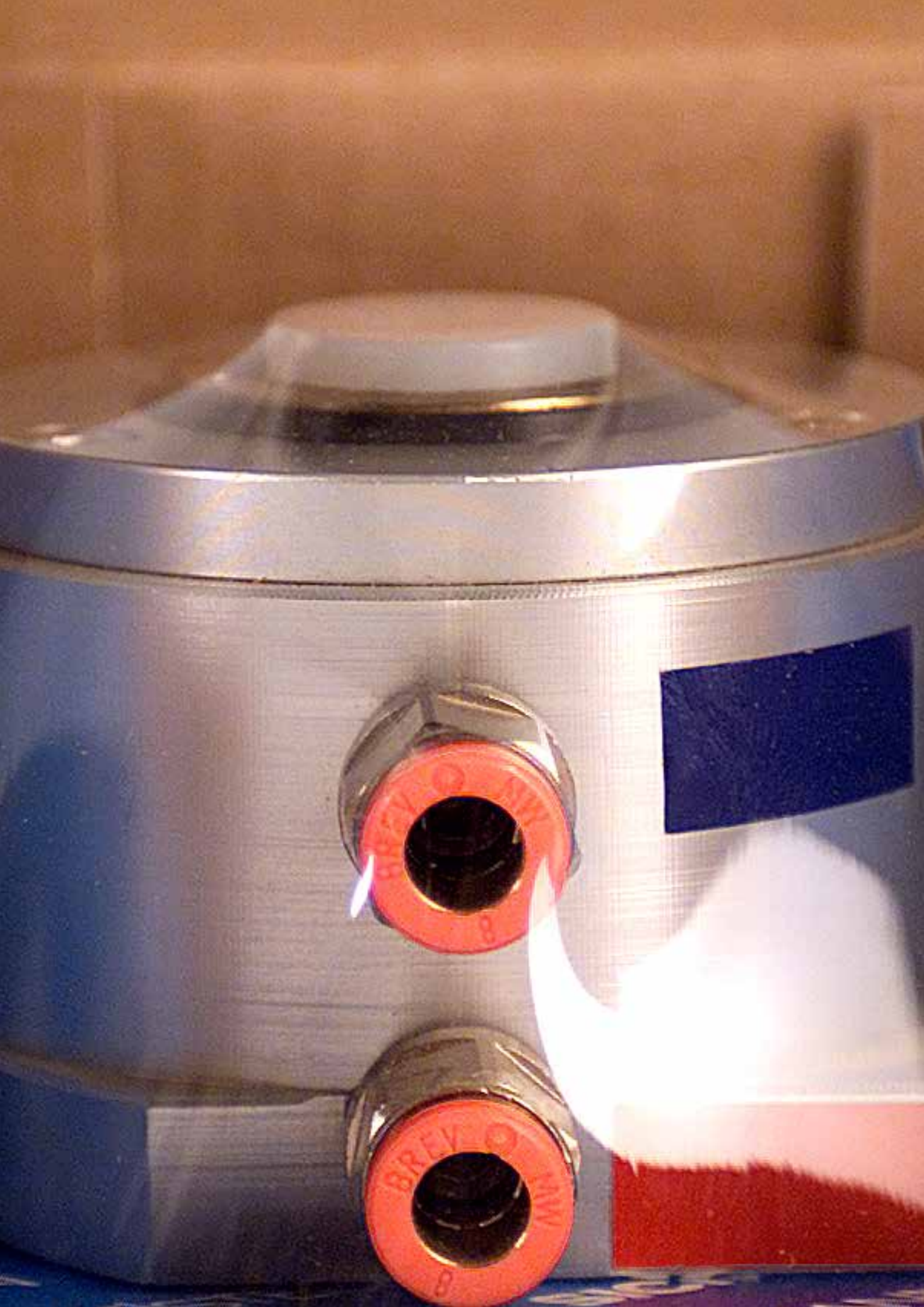
We use a new type of folding process to secure your products. You save time, money and therefore considerable processing costs. And you are doing the environment a big favour.



Effort = small  
Protection = large  
Eco = FULL

Emba-Flex® ECO  
European patent EP 3 892 556





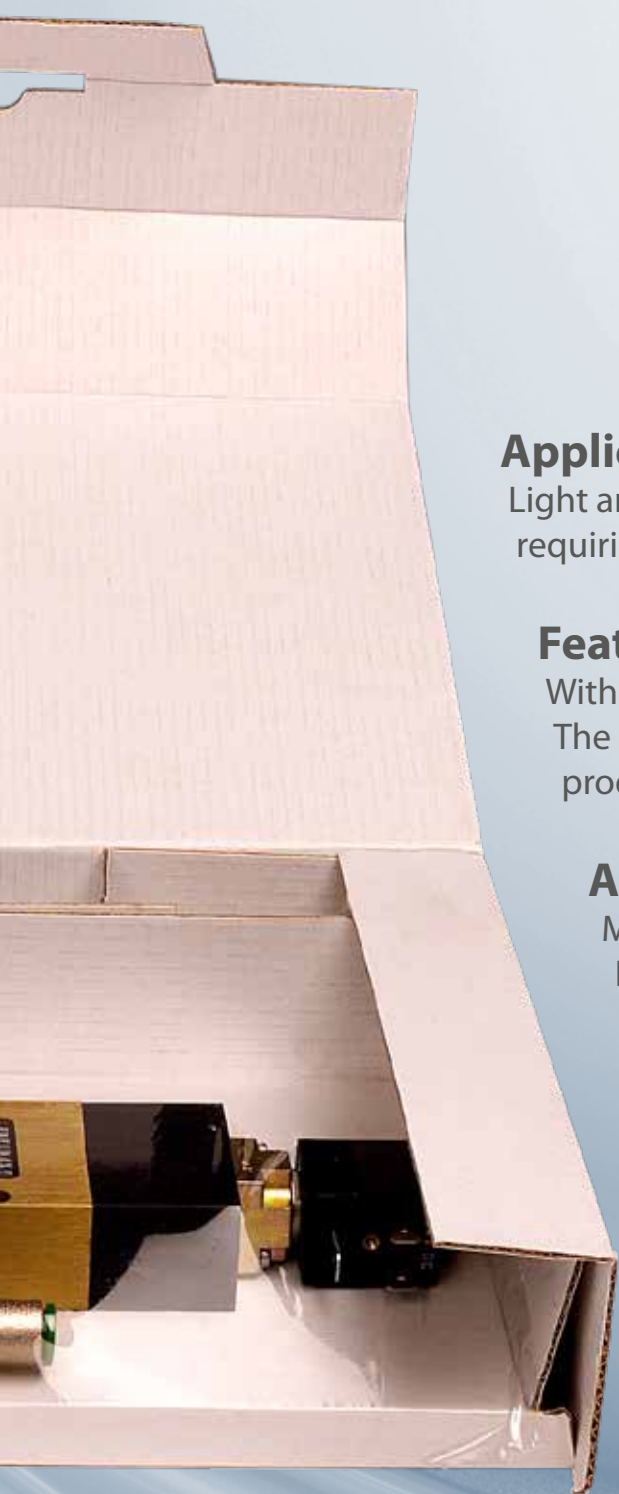
retention packaging  
one-piece  
one-piece  
Emba-Quick®

light and flat products of up to 2 kg (i.d.R.)  
for medium level protection  
major storage space savings  
transport box attached

# Emba-Quick®

One-piece retention packaging





### **Application:**

Light and flat products of up to 2.0 kg (normally),  
requiring medium level protection

### **Features:**

With transport box attached

The packaging will adapt to even the most unusual  
product contours

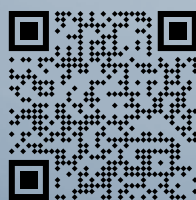
### **Advantages:**

Major storage space savings

High-speed packaging

The amount of packaging types  
is substantially reduced

### **Assembly Guide:**



## One-piece retention packaging

### Emba-Quick® The one-piece retention packaging

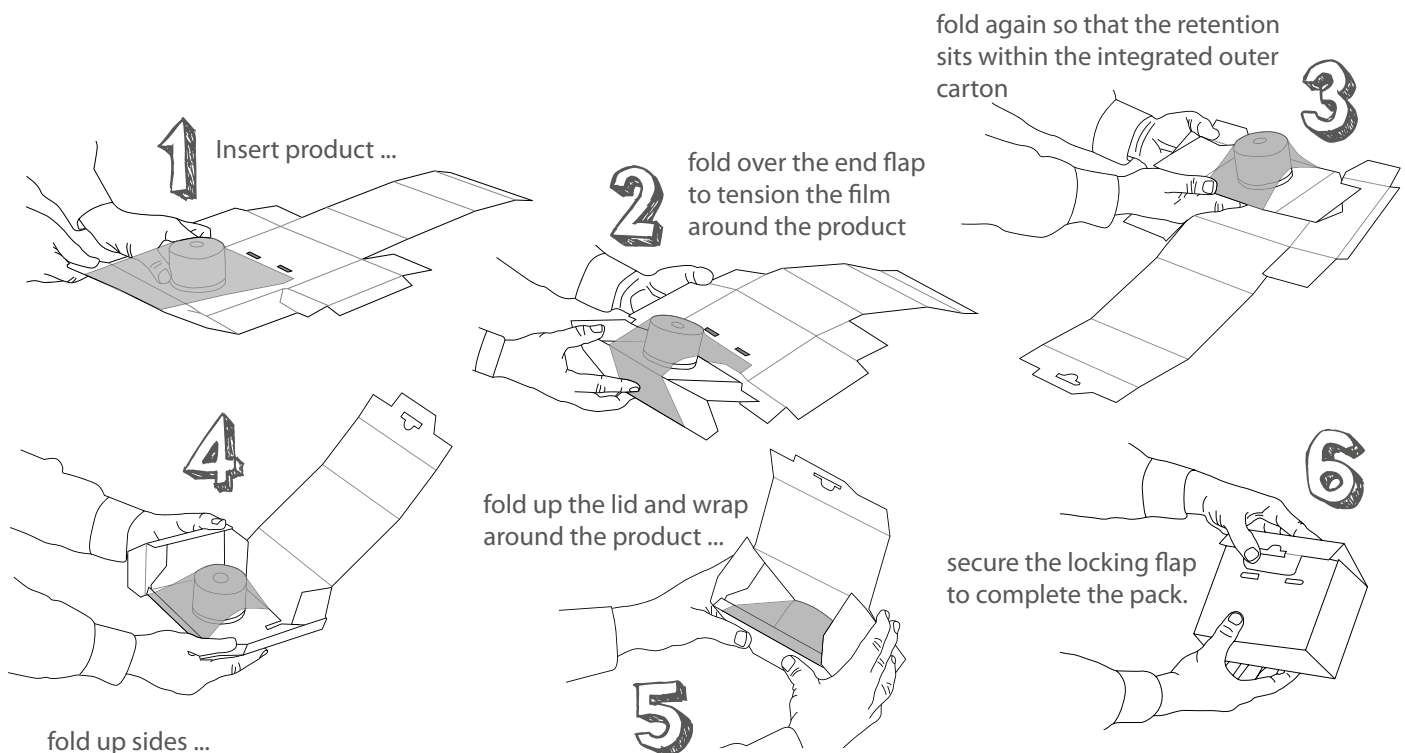
- packing in 10 seconds
- no extra transport box needed
- quick fastening avoids box gluing
- optionally with self-adhesive closure
- high-quality printing possible
- can be equipped with a hollow bottom or extra side pocket for accessories
- reduction of process costs (procurement, storing, shipment)
- reusable
- environment-friendly, can be disposed of with waste paper
- professional appearance
- economical due to standard program (no tool costs)



### The method

The same special stretch mechanism as for Emba-Flex®. The stretch film fixes the product firmly to the corrugated cardboard format.

Emba-Quick® comprises an attached transport box. This solution saves space, time and costs.



## One-piece retention packaging

### Application examples

Emba-Quick® adapts optimally to the most varied product contours like a second skin. New products from your company can often be packed immediately with existing packaging sizes.

Also product accessories can be packed securely in accessory compartments or hollow bottom. Whether it's a manual, cables or remote controls, everything is securely fixed in position.

In addition to our immediate delivery program listed in the table below we also offer existing special packaging as well as new developments according to your individual needs.



### The immediate delivery program

| Maximum product size (mm) | Article Codes<br>NORM- / ESD- / ECOLine | Max. Product Weight | Page |
|---------------------------|-----------------------------------------|---------------------|------|
| 70 x 50 x 20 mm           | FL 070502 Q / ESQ / ECQ                 | ca. 0,4 kg          | 58   |
| 70 x 50 x 50 mm           | FL 070505 Q / ESQ / ECQ                 | ca. 0,8 kg          | 58   |
| 80 x 50 x 30 mm           | FL 080503 Q / ESQ / ECQ                 | ca. 0,8 kg          | 58   |
| 100 x 90 x 60 mm          | FL 100906 Q / ESQ / ECQ                 | ca. 1,0 kg          | 59   |
| 120 x 90 x 40 mm          | FL 120904 Q / ESQ / ECQ                 | ca. 1,0 kg          | 59   |
| 120 x 100 x 20 mm         | FL 121002 Q / ESQ / ECQ                 | ca. 1,0 kg          | 59   |
| 120 x 110 x 60 mm         | FL 121106 Q / ESQ / ECQ                 | ca. 1,0 kg          | 60   |
| 140 x 90 x 30 mm          | FL 140903 Q / ESQ / ECQ                 | ca. 1,0 kg          | 60   |
| 140 x 90 x 50 mm          | FL 140905 Q / ESQ / ECQ                 | ca. 1,0 kg          | 60   |
| 150 x 70 x 20 mm          | FL 150702 Q / ESQ / ECQ                 | ca. 0,8 kg          | 61   |
| 150 x 130 x 50 mm         | FL 151305 Q / ESQ / ECQ                 | ca. 1,0 kg          | 61   |
| 160 x 80 x 10 mm          | FL 160801 Q / ESQ / ECQ                 | ca. 0,7 kg          | 61   |
| 180 x 110 x 50 mm         | FL 181105 Q / ESQ / ECQ                 | ca. 2,0 kg          | 62   |
| 180 x 120 x 60 mm         | FL 181206 Q / ESQ / ECQ                 | ca. 2,0 kg          | 62   |
| 180 x 180 x 40 mm         | FL 181804 Q / ESQ / ECQ                 | ca. 2,0 kg          | 62   |
| 190 x 120 x 30 mm         | FL 191203 Q / ESQ / ECQ                 | ca. 1,0 kg          | 63   |
| 200 x 120 x 20 mm         | FL 201202 Q / ESQ / ECQ                 | ca. 1,5 kg          | 63   |
| 200 x 160 x 30 mm         | FL 201603 Q / ESQ / ECQ                 | ca. 1,5 kg          | 63   |
| 240 x 160 x 70 mm         | FL 241607 Q / ESQ / ECQ                 | ca. 2,0 kg          | 64   |
| 240 x 180 x 10 mm         | FL 241801 Q / ESQ / ECQ                 | ca. 1,5 kg          | 64   |
| 250 x 180 x 50 mm         | FL 251805 Q / ESQ / ECQ                 | ca. 2,0 kg          | 64   |
| 280 x 180 x 50 mm         | FL 281805 Q / ESQ / ECQ                 | ca. 1,5 kg          | 65   |
| 400 x 250 x 30 mm         | FL 402503 Q / ESQ / ECQ                 | ca. 2,0 kg          | 65   |



## One-piece retention packaging



Maximum product size: **70 x 50 x 20 mm**

### Product data

Overall dimensions 89 x 72 x 44 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 070502 Q**

NORMLine 50, PU film 50 microns

**FL 070502 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 070502 ECQ**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 400 gr.



Maximum product size: **70 x 50 x 50 mm**

### Product data

Overall dimensions 106 x 92 x 78 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 070505 Q**

NORMLine 50, PU film 50 microns

**FL 070505 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 070505 ECQ**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 800 gr.



Maximum product size: **80 x 50 x 30 mm**

### Product data

Overall dimensions 107 x 84 x 66 mm

Quality B 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 080503 Q**

NORMLine 50, PU film 50 microns

**FL 080503 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 080503 ECQ**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 800 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



FL 100906 Q

Maximum product size: **100 x 90 x 60 mm**

### Product data

Overall dimensions 132 x 136 x 102 mm

Quality B 1.30

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 100906 Q**

NORMLine 50, PU film 50 microns

**FL 100906 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 100906 ECQ**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors

Max. product weight: up to 1000 gr.



FL 120904 Q

Maximum product size: **120 x 90 x 40 mm**

### Product data

Overall dimensions 159 x 121 x 85 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 120904 Q**

NORMLine 50, PU film 50 microns

**FL 120904 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 120904 ECQ**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors

Max. product weight: up to 1000 gr.



FL 121002 Q

Maximum product size: **120 x 100 x 20 mm**

### Product data

Overall dimensions 170 x 145 x 47 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article-code

### Version

**FL 121002 Q**

NORMLine 50, PU Folie 50 microns

**FL 121002 ESQ**

ESDLine 50, PU Folie ESD 50 microns

**FL 121002 ECQ**

ECOLine 50, PE film 50 microns

Applications: Relay, plates

Max. product weight: up to 1000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



FL 121106 Q

Maximum product size: **120 x 110 x 60 mm**

### Product data

Overall dimensions 160 x 136 x 109 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 121106 Q**

NORMLine 50, PU film 50 microns

**FL 121106 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 121106 ECQ**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors

Max. product weight: up to 1000 gr.



FL 140903 Q

Maximum product size: **140 x 90 x 30 mm**

### Product data

Overall dimensions 180 x 130 x 71 mm

Quality B 1.30

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 140903 Q**

NORMLine 50, PU film 50 microns

**FL 140903 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 140903 ECQ**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors

Max. product weight: up to 1000 gr.



FL 140905 Q

Maximum product size: **140 x 90 x 50 mm**

### Product data

Overall dimensions 178 x 135 x 90 mm

Quality B 1.30

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 140905 Q**

NORMLine 50, PU film 50 microns

**FL 140905 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 140905 ECQ**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors

Max. product weight: up to 1000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



FL 150702 Q

Maximum product size: **150 x 70 x 20 mm**

### Product data

Overall dimensions 200 x 107 x 49 mm  
Quality E 1.50  
Scope of delivery = Retention packaging with attached transport box  
1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 150702 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 150702 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 150702 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: plates, small devices, smartphones  
Max. product weight: up to 750 gr.



FL 151305 Q

Maximum product size: **150 x 130 x 50 mm**

### Product data

Overall dimensions 183 x 168 x 83 mm  
Quality B 1.30  
Scope of delivery = Retention packaging with attached transport box  
1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 151305 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 151305 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 151305 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, sensors, displays  
Max. product weight: up to 1000 gr.



FL 160801 Q

Maximum product size: **160 x 80 x 10 mm**

### Product data

Overall dimensions 195 x 110 x 50 mm  
Quality E 1.40  
Scope of delivery = Retention packaging with attached transport box  
1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 160801 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 160801 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 160801 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: smartphones, hard drives, small devices, circuit boards  
Max. product weight: up to 750 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



Maximum product size: **180 x 110 x 50 mm**

### Product data

Overall dimensions 220 x 177 x 90 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

### Article code

### Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>FL 181105 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 181105 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181105 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: hard disk drives, disk drives, small devices, displays  
 Max. product weight: up to 2000 gr.



Maximum product size: **180 x 120 x 60 mm**

### Product data

Overall dimensions 210 x 170 x 120 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

### Article code

### Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>FL 181206 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 181206 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181206 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, instruments, displays  
 Max. product weight: up to 2000 gr.



Maximum product size: **180 x 180 x 40 mm**

### Product data

Overall dimensions 212 x 211 x 86 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

### Article code

### Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>FL 181804 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 181804 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181804 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, sensors, displays  
 Max. product weight: up to 2000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



Maximum product size: **190 x 120 x 30 mm**

### Product data

Overall dimensions 250 x 151 x 57 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 191203 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 191203 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 191203 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: hard disk drives, small devices, printed circuit boards  
 Max. product weight: up to 1000 gr.



Maximum product size: **200 x 120 x 20 mm**

### Product data

Overall dimensions 240 x 156 x 46 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 201202 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 201202 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 201202 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, printed circuit boards, hard disk drives  
 Max. product weight: up to 1500 gr.



Maximum product size: **200 x 160 x 30 mm**

### Product data

Overall dimensions 260 x 200 x 72 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box  
 1 unit

| Article code         | Version                            |
|----------------------|------------------------------------|
| <b>FL 201603 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 201603 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 201603 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, printed circuit boards, hard disk drives  
 Max. product weight: up to 1500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



FL 241607 Q

Maximum product size: **240 x 160 x 70 mm**

### Product data

Overall dimensions 286 x 225 x 120 mm

Quality B 1.50

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 241607 Q**

NORMLine 50, PU film 50 microns

**FL 241607 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 241607 ECQ**

ECOLine 50, PE film 50 microns

Applications: small devices, displays, panels  
Max. product weight: up to 2000 gr.



FL 241801 Q

Maximum product size: **240 x 180 x 10 mm**

### Product data

Overall dimensions 342 x 230 x 49 mm

Quality E 1.50

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article-code

### Version

**FL 241801 Q**

NORMLine 50, PU film 50 microns

**FL 241801 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 241801 ECQ**

ECOLine 80, PE film 80 microns

Applications: Tablet-PCs, plates  
Max. product weight: up to 1500 Gramm



FL 251805 Q

Maximum product size: **250 x 180 x 50 mm**

### Product data

Overall dimensions 303 x 253 x 85 mm

Quality B 1.50

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article code

### Version

**FL 251805 Q**

NORMLine 50, PU film 50 microns

**FL 251805 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 251805 ECQ**

ECOLine 50, PE film 50 microns

Applications: small devices, instruments, plates, displays  
Max. product weight: up to 2000 Gramm

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging



FL 281805 Q

Maximum product size: **280 x 180 x 50 mm**

### Product data

Overall dimensions 341 x 268 x 91 mm  
Quality B 1.50  
Scope of delivery = Retention packaging with attached transport box  
1 unit

### Article code

### Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>FL 281805 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 281805 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 281805 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, analyzer, displays  
Max. product weight: up to 1500 gr.



FL 402503 Q

Maximum product size: **400 x 250 x 30 mm**

### Product data

Overall dimensions 466 x 305 x 76 mm  
Quality B 1.50  
Scope of delivery = Retention packaging with attached transport box  
1 unit

### Article code

### Version

|                      |                                    |
|----------------------|------------------------------------|
| <b>FL 402503 Q</b>   | NORMLine 50, PU film 50 microns    |
| <b>FL 402503 ESQ</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 402503 ECQ</b> | ECOLine 50, PE film 50 microns     |

Applications: instruments, displays, printed circuit boards  
Max. product weight: up to 2000 gr.

# Emba-Quick® SK

One-piece retention packaging  
with self-adhesive closure

## Application:

Light and flat products of up to 2.0 kg (normally),  
requiring medium level protection

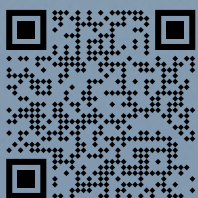
## Features:

With transport box attached  
The packaging will adapt to even the most unusual  
product contours  
With self-adhesive closure

## Advantages:

Major storage space savings  
High-speed packaging  
The amount of packaging types is substantially reduced  
No more closing material necessary

## Assembly Guide:





Now available with self-adhesive closure!

## All-in-one: shipping box, protective device and sealing material

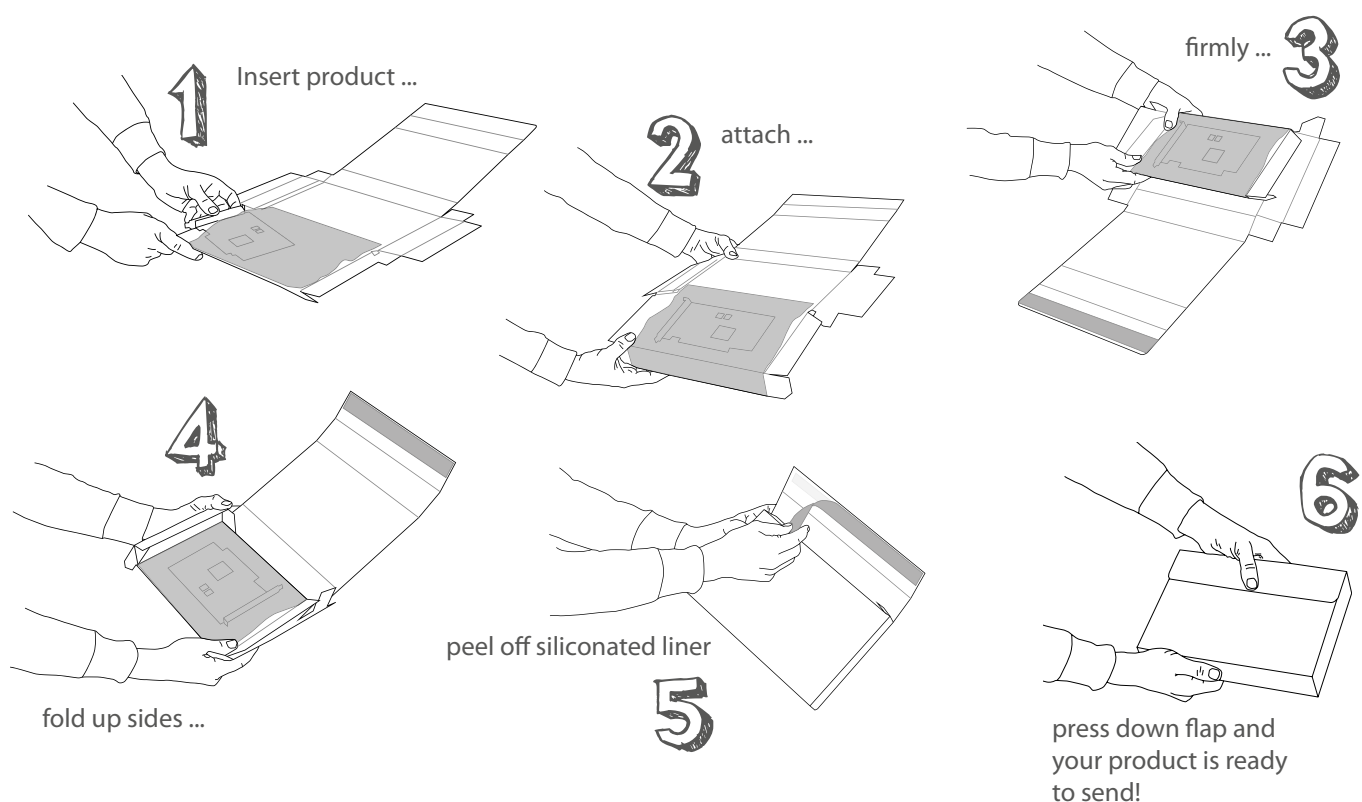
- Packed and ready to ship in 10 seconds
- No extra shipping carton necessary
- No additional sealing material necessary
- One-part system packaging
- Excellent shipping protection for your products
- Reduces process costs (procurement, storage, shipping)
- High-quality printing possible
- Environmentally friendly, as it can be disposed of along with waste paper
- Professional look



Emba-Quick® SK adapts optimally to the most varied product contours like a second skin. New products from your company can often be packed immediately with existing packaging sizes.

Also product accessories can be packed securely in accessory compartments or hollow bottom. Whether it's a manual, cables or remote controls, everything is securely fixed in position.

## The technology



Now available with self-adhesive closure!



## The immediate delivery program

| Maximum product size (mm) | Article Codes<br>NORM- / ESD- / ECOLine | Max. product weight | Page |
|---------------------------|-----------------------------------------|---------------------|------|
| 70 x 50 x 20 mm           | FL 070502 Q- / EQ- / CQ-SK              | ca. 0,4 kg          | 70   |
| 70 x 50 x 50 mm           | FL 070505 Q- / EQ- / CQ-SK              | ca. 0,8 kg          | 70   |
| 80 x 50 x 30 mm           | FL 080503 Q- / EQ- / CQ-SK              | ca. 0,8 kg          | 70   |
| 100 x 90 x 60 mm          | FL 100906 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 71   |
| 120 x 90 x 40 mm          | FL 120904 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 71   |
| 120 x 100 x 20 mm         | FL 121002 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 71   |
| 120 x 110 x 60 mm         | FL 121106 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 72   |
| 140 x 90 x 30 mm          | FL 140903 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 72   |
| 140 x 90 x 50 mm          | FL 140905 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 72   |
| 150 x 70 x 20 mm          | FL 150702 Q- / EQ- / CQ-SK              | ca. 0,8 kg          | 73   |
| 150 x 130 x 50 mm         | FL 151305 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 73   |
| 160 x 80 x 10 mm          | FL 160801 Q- / EQ- / CQ-SK              | ca. 0,7 kg          | 73   |
| 180 x 110 x 50 mm         | FL 181105 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 74   |
| 180 x 120 x 60 mm         | FL 181206 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 74   |
| 180 x 180 x 40 mm         | FL 181804 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 74   |
| 190 x 120 x 30 mm         | FL 191203 Q- / EQ- / CQ-SK              | ca. 1,0 kg          | 75   |
| 200 x 120 x 20 mm         | FL 201202 Q- / EQ- / CQ-SK              | ca. 1,5 kg          | 75   |
| 200 x 160 x 30 mm         | FL 201603 Q- / EQ- / CQ-SK              | ca. 1,5 kg          | 75   |
| 240 x 160 x 70 mm         | FL 241607 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 76   |
| 240 x 180 x 10 mm         | FL 241801 Q- / EQ- / CQ-SK              | ca. 1,5 kg          | 76   |
| 250 x 180 x 50 mm         | FL 251805 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 76   |
| 280 x 180 x 50 mm         | FL 281805 Q- / EQ- / CQ-SK              | ca. 1,5 kg          | 77   |
| 400 x 250 x 30 mm         | FL 402503 Q- / EQ- / CQ-SK              | ca. 2,0 kg          | 77   |

## One-piece retention packaging with self-adhesive closure



FL 070502 Q SK

Maximum product size: **70 x 50 x 20 mm**

### Product data

Overall dimensions 89 x 72 x 44 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 070502 Q SK**

NORMLine 50, PU film 50 microns

**FL 070502 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 070502 CQ SK**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 400 gr.



FL 070505 Q SK

Maximum product size: **70 x 50 x 50 mm**

### Product data

Overall dimensions 106 x 92 x 78 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article-code

### Version

**FL 070505 Q SK**

NORMLine 50, PU film 50 microns

**FL 070505 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 070505 CQ SK**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 800 gr.



FL 080503 Q SK

Maximum product size: **80 x 50 x 30 mm**

### Product data

Overall dimensions 107 x 84 x 66 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 080503 Q SK**

NORMLine 50, PU film 50 microns

**FL 080503 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 080503 CQ SK**

ECOLine 50, PE film 50 microns

Applications: printed circuit boards, probes, sensors  
Max. product weight: up to 800 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



FL 100906 Q SK

Maximum product size: **100 x 90 x 60 mm**

### Product data

Overall dimensions 132 x 136 x 102 mm

Quality B 1.30

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 100906 Q SK**

NORMLine 50, PU film 50 microns

**FL 100906 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 100906 CQ SK**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors  
Max. product weight: up to 1000 gr.



FL 120904 Q SK

Maximum product size: **120 x 90 x 40 mm**

### Product data

Overall dimensions 159 x 121 x 85 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article-code

### Version

**FL 120904 Q SK**

NORMLine 50, PU film 50 microns

**FL 120904 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 120904 CQ SK**

ECOLine 50, PE film 50 microns

Applications: controllers, displays, sensors  
Max. product weight: up to 1000 gr.



FL 121002 Q SK

Maximum product size: **120 x 100 x 20 mm**

### Product data

Overall dimensions 170 x 145 x 47 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 121002 Q SK**

NORMLine 50, PU film 50 microns

**FL 121002 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 121002 CQ SK**

ECOLine 50, PE film 50 microns

Applications: Relay, plates  
Max. product weight: up to 1000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



Maximum product size: **120 x 110 x 60 mm**

### Product data

Overall dimensions 160 x 136 x 109 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with  
 attached transport box  
 self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 121106 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 121106 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 121106 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, displays, sensors  
 Max. product weight: up to 1000 gr.



Maximum product size: **140 x 90 x 30 mm**

### Product data

Overall dimensions 180 x 130 x 71 mm  
 Quality B 1.30  
 Scope of delivery = Retention packaging with  
 attached transport box  
 self-adhesive closure  
 1 unit

| Article-code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 140903 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 140903 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 140903 CQ SK</b> | ECOLine 80, PE film 80 microns     |

Applications: controllers, displays, sensors  
 Max. product weight: up to 1000 gr.



Maximum product size: **140 x 90 x 50 mm**

### Product data

Overall dimensions 178 x 135 x 90 mm  
 Quality B 1.30  
 Scope of delivery = Retention packaging with  
 attached transport box  
 self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 140905 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 140905 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 140905 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, displays, sensors  
 Max. product weight: up to 1000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



Maximum product size: **150 x 70 x 20 mm**

### Product data

Overall dimensions 200 x 107 x 49 mm  
 Quality E 1.50  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 150702 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 150702 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 150702 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: plates, small devices  
 Max. product weight: up to 750 gr.



Maximum product size: **150 x 130 x 50 mm**

### Product data

Overall dimensions 183 x 168 x 83 mm  
 Quality B 1.30  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article-code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 151305 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 151305 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 151305 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, sensors, displays  
 Max. product weight: up to 1000 gr.



Maximum product size: **160 x 80 x 10 mm**

### Product data

Overall dimensions 195 x 110 x 50 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 160801 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 160801 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 160801 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: smartphones, hard drives, small devices, circuit boards  
 Max. product weight: up to 750 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



Maximum product size: **180 x 110 x 50 mm**

### Product data

Overall dimensions 220 x 177 x 90 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 181105 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 181105 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181105 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: hard disk drives, disk drives, small devices, displays  
 Max. product weight: up to 2000 gr.



Maximum product size: **180 x 120 x 60 mm**

### Product data

Overall dimensions 210 x 170 x 120 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article-code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 181206 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 181206 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181206 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, instruments, displays  
 Max. product weight: up to 2000 gr.



Maximum product size: **180 x 180 x 40 mm**

### Product data

Overall dimensions 212 x 211 x 86 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 181804 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 181804 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 181804 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, sensors, displays  
 Max. product weight: up to 2000 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



Maximum product size: **190 x 120 x 30 mm**

### Product data

Overall dimensions 250 x 151 x 57 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 191203 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 191203 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 191203 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: hard disk drives, small devices, printed circuit boards  
 Max. product weight: up to 1000 gr.



Maximum product size: **200 x 120 x 20 mm**

### Product data

Overall dimensions 240 x 156 x 46 mm  
 Quality E 1.40  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article-code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 201202 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 201202 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 201202 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, printed circuit boards, hard disk drives  
 Max. product weight: up to 1500 gr.



Maximum product size: **200 x 160 x 30 mm**

### Product data

Overall dimensions 260 x 200 x 72 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with attached transport box self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 201603 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 201603 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 201603 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: small devices, printed circuit boards, hard disk drives  
 Max. product weight: up to 1500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



FL 241607 Q SK

Maximum product size: **240 x 160 x 70 mm**

### Product data

Overall dimensions 286 x 225 x 120 mm

Quality B 1.50

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 241607 Q SK**

NORMLine 50, PU film 50 microns

**FL 241607 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 241607 CQ SK**

ECOLine 50, PE film 50 microns

Applications: small devices, displays, panels  
Max. product weight: up to 2000 gr.



FL 241801 Q SK

Maximum product size: **240 x 180 x 10 mm**

### Product data

Overall dimensions 342 x 230 x 49 mm

Quality E 1.50

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article-code

### Version

**FL 241801 Q SK**

NORMLine 50, PU film 50 microns

**FL 241801 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 241801 CQ SK**

ECOLine 80, PE film 80 microns

Applications: Tablet-PCs, plates  
Max. product weight: up to 1500 Gramm



FL 251805 Q SK

Maximum product size: **250 x 180 x 50 mm**

### Product data

Overall dimensions 303 x 253 x 85 mm

Quality B 1.50

Scope of delivery = Retention packaging with  
attached transport box  
self-adhesive closure  
1 unit

### Article code

### Version

**FL 251805 Q SK**

NORMLine 50, PU film 50 microns

**FL 251805 EQ SK**

ESDLine 50, PU film ESD 50 microns

**FL 251805 CQ SK**

ECOLine 50, PE film 50 microns

Applications: small devices, instruments, plates, displays  
Max. product weight: up to 2000 Gramm

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## One-piece retention packaging with self-adhesive closure



Maximum product size: **280 x 180 x 50 mm**

### Product data

Overall dimensions 341 x 268 x 91 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with  
 attached transport box  
 self-adhesive closure  
 1 unit

| Article code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 281805 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 281805 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 281805 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: controllers, instruments, analyzer, displays  
 Max. product weight: up to 1500 gr.



Maximum product size: **400 x 250 x 30 mm**

### Product data

Overall dimensions 466 x 305 x 76 mm  
 Quality B 1.50  
 Scope of delivery = Retention packaging with  
 attached transport box  
 self-adhesive closure  
 1 unit

| Article-code           | Version                            |
|------------------------|------------------------------------|
| <b>FL 402503 Q SK</b>  | NORMLine 50, PU film 50 microns    |
| <b>FL 402503 EQ SK</b> | ESDLine 50, PU film ESD 50 microns |
| <b>FL 402503 CQ SK</b> | ECOLine 50, PE film 50 microns     |

Applications: instruments, displays, printed circuit boards  
 Max. product weight: up to 2000 gr.



# Suspension Packaging®

best protection of fragile goods  
of up to 35.0 Kg

## Emba-Swing®

transported „floating on air“  
reusable  
protection against shock and vibration  
storage space reduction  
quick handling

# Emba-Swing®

## Suspension Packaging



**Application:**

Fragile goods of up to 35.0 kg

**Features:**

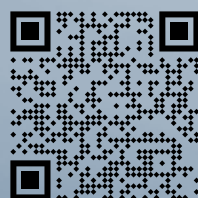
The product is suspended between two cushions during the transport

Reusable packaging system

**Advantages:**

Highest protection level against shock and vibration

Storage space reduction as the packaging can quickly be set upright

**Assembly Guide:**

## Suspension packaging

### Emba-Swing® The suspension packaging

- high-level protection for fragile products against shock and vibration
- products are transported as if they were "floating on air"
- quick handling
- storage space reduction compared with foam solutions
- reduction of process costs (procurement, storing, shipment)
- reusable
- environment-friendly, can be disposed of with waste paper
- professional appearance
- economical due to standard program (no tool costs)



### The method

The highly flexible but practically tear-free stretch film clings perfectly to the different product contours. Clamping between two suspension

cushions means that the product will be stored as if it was "floating on air" during the transport. Even if the box is dropped on its side walls the product will remain in position.



### Application examples

Emba-Swing® adapts optimally to the most varied product contours like a second skin. New products from your company can often be packed immediately with existing packaging sizes. Also products of different sizes fit into the same-sized packaging solution.

Also product accessories can be packed securely in accessory compartments. Whether it's a manual, cables or remote controls, everything is securely fixed in position.

In addition to our immediate delivery program listed in the table below we also offer existing special packaging as well as new developments according to your individual needs.



### The immediate delivery program

| Maximum product surface (mm) | Article code | Height of cushion | Max. product weight | Page |
|------------------------------|--------------|-------------------|---------------------|------|
| 120 x 70 mm                  | SW 120750    | 50 mm             | ca. 3,0 kg          | 84   |
| 130 x 130 mm                 | SW 131340    | 40 mm             | ca. 1,0 kg          | 84   |
| 160 x 100 mm                 | SN 161003    | 30 mm             | ca. 1,0 kg          | 84   |
| 170 x 170 mm                 | SW 171770    | 70 mm             | ca. 3,0 kg          | 85   |
| 190 x 150 mm                 | SW 191560    | 60 mm             | ca. 3,0 kg          | 85   |
| 200 x 100 mm                 | SW 201050    | 50 mm             | ca. 1,5 kg          | 85   |
| 200 x 110 mm                 | SW 201140    | 40 mm             | ca. 1,5 kg          | 86   |
| 240 x 150 mm                 | SW 241560    | 60 mm             | ca. 2,0 kg          | 86   |
| 250 x 180 mm                 | SW 251880    | 80 mm             | ca. 4,0 kg          | 86   |
| 250 x 250 mm                 | SW 252560    | 60 mm             | ca. 5,0 kg          | 87   |
| 280 x 180 mm                 | SW 281880    | 80 mm             | ca. 6,0 kg          | 87   |
| 280 x 230 mm                 | SW 282380    | 80 mm             | ca. 8,0 kg          | 87   |
| 290 x 270 mm                 | SW 292790    | 90 mm             | ca. 10 kg           | 88   |
| 300 x 70 mm                  | SN 300760    | 60 mm             | ca. 2,0 kg          | 88   |
| 300 x 200 mm                 | SW 302060    | 60 mm             | ca. 6,0 kg          | 88   |
| 300 x 200 mm                 | SW 302080    | 80 mm             | ca. 10 kg           | 89   |
| 300 x 300 mm                 | SW 303070    | 70 mm             | ca. 7,0 kg          | 89   |
| 340 x 330 mm                 | SW 3433100   | 100 mm            | ca. 15 kg           | 89   |
| 400 x 300 mm                 | SW 4030100   | 100 mm            | ca. 15 kg           | 90   |
| 450 x 440 mm                 | SW 454490    | 90 mm             | ca. 12 kg           | 90   |
| 450 x 440 mm                 | SW 4544180   | 180 mm            | ca. 30 kg           | 90   |
| 460 x 460 mm                 | SW 4646150   | 150 mm            | ca. 20 kg           | 91   |
| 500 x 300 mm                 | SW 5030120   | 120 mm            | ca. 20 kg           | 91   |
| 500 x 400 mm                 | SW 5040160   | 160 mm            | ca. 25 kg           | 91   |
| 500 x 500 mm                 | SW 5050160   | 160 mm            | ca. 30 kg           | 92   |

Available in sets of 50 and more (2 cushions, 1 box). Special sizes on request.  
All boxes have additional adjustable heights. For modification requests call us.

## Suspension packaging



Max. product surface: **120 x 70 mm**

### Product data

Overall transport box dimensions

208 x 158 x 117 mm

Fefco 0201 slotted-type box with top and bottom flaps  
Quality B 1.30

Scope of delivery = Suspension cushion 2 units, Transport box 1 unit

### Article-code

### Version

**SW 120750 S**

NORMLine 50, PU Folie 50 microns

**SW 120750 ESDS**

ESDLine 50, PU Folie ESD 50 microns

**SW 120750 EC6S**

ECOLine, PE Folie 60 microns

Applications: Sensors, displays, small devices

Max. product weight: up to 3 kg



Max. product surface: **130 x 130 mm**

### Product data

Overall transport box dimensions

200 x 200 x 104 mm

Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30

Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

**SW 131340 S**

NORMLine 50, PU film 50 microns

**SW 131340 ESDS**

ESDLine 50, PU film ESD 50 microns

**SW 131340 EC8S**

ECOLine, PE film 80 microns

Applications: small devices, instruments, displays

Max. product weight: up to 1.0 kg



Max. product surface: **160 x 100 x 30 mm**

### Product data

Overall transport box dimensions

242 x 172 x 78 mm

Fefco 0211 tuck-lid folding box  
Quality E 1.20

Scope of delivery = Clam shell 1 unit,  
Transport box 1 unit

### Article-code

### Version

**SN 161003 S**

NORMLine 75, PU film 75 microns

**SN 161003 ESDS**

ESDLine 75, PU film ESD 75 microns

Applications: small devices, printed circuit boards

Max. product weight: up to 1.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



Max. product surface: **170 x 170 mm**

### Product data

Overall transport box dimension  
236 x 226 x 230 / 190 / 150 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease for height of 40 mm, Quality B 1.30  
Scope of delivery = Suspension cushion 2 units, Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>SW 171770 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SW 171770 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SW 171770 EC8S</b> | ECOLine, PE film 80 microns        |
| <b>SW 171770 MS</b>   | MAXILine 100, PU 100 microns       |

Applications: small devices, displays, panels, mechatronics  
Max. product weight: up to 3 kg



Max. product surface: **190 x 150 mm**

### Product data

Overall transport box dimension  
311 x 256 x 187 / 137 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease for height of 50 mm, Quality B 1.30  
Scope of delivery = Suspension cushion 2 units, Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>SW 191560 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SW 191560 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SW 191560 EC8S</b> | ECOLine, PE film 80 microns        |
| <b>SW 191560 MS</b>   | MAXILine 125, PU 125 microns       |

Applications: small devices, displays, panels, mechatronics  
Max. product weight: up to 3 kg



Max. product surface: **200 x 100 mm**

### Product data

Overall transport box dimension 287x185x194/120mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease for height of 70 mm,  
Quality C 1.30, Scope of delivery = Suspension cushion 2  
units, Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>SW 201050 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SW 201050 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SW 201050 EC8S</b> | ECOLine, PE film 80 microns        |

Applications: small devices, displays, panels, mechatronics  
Max. product weight: up to 1.5 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



Max. product surface: **200 x 110 mm**

### Product data

Overall transport box dimension 300x200x150/100mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 50 mm,  
Quality C 1.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

|                       |                                    |
|-----------------------|------------------------------------|
| <b>SW 201140 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SW 201140 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SW 201140 EC8S</b> | ECOLine, PE film 80 microns        |

Applications: small devices, displays, mechatronics  
Max. product weight: up to 1.5 kg



Max. product surface: **240 x 150 mm**

### Product data

Overall transport box dimension 324x234x194/144mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 50 mm,  
Quality C 1.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

|                       |                                    |
|-----------------------|------------------------------------|
| <b>SW 241560 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SW 241560 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SW 241560 EC8S</b> | ECOLine, PE film 80 microns        |

Applications: disk drives, small devices, displays, mechatronics  
Max. product weight: up to 2.0 kg



Max. product surface: **250 x 180 mm**

### Product data

Overall transport box dimension 340x300x246/196mm  
Fefco 0201 slotted-type box with top and bottom flaps  
additional crease of 50 mm,  
Quality C 1.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>SW 251880 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 251880 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 251880 ESDS</b> | MAXILine 150, PU film 150 microns    |

Applications: GPS units, 1 and 2 DIN car audio units, instruments.  
Max. product weight: up to 4.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



SW 252560

Max. product surface: **250 x 250 mm**

### Product data

Overall transport box dimension 334x334x218/148mm  
Fefco 0201 slotted-type box with top and bottom flaps and additional crease of 70 mm,  
Quality C 1.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 252560 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 252560 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 252560 EC8S</b> | ECOLine, PE film 80 microns          |
| <b>SW 252560 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: small devices, displays, panels, mechatronics  
Max. product weight: up to 5.0 kg



SW 281880

Max. product surface: **280 x 180 mm**

### Product data

Overall transport box dimension  
364 x 247 x 256 / 216 / 176 mm  
Fefco 0201 slotted-type box with top and bottom flaps and additional crease of 40 mm, Quality C 1.30  
Scope of delivery = Suspension cushion 2 units, transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 281880 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 281880 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 281880 EC8S</b> | ECOLine, PE film 80 microns          |
| <b>SW 281880 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: small devices, panels, mechatronics  
Max. product weight: up to 6 kg



SW 282380

Max. product surface: **280 x 230 mm**

### Product data

Overall transport box dimension 422x334x288/208mm  
Fefco 0201 folding box with base, cover flaps and additional crease of 80 mm,  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 282380 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 282380 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 282380 MS</b>   | MAXILine, PU film 150 microns        |

Applications: small devices, displays, panels, mechatronics  
Max. product weight: up to 8.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



SW 292790

Max. product surface: **290 x 270 mm**

### Product data

Overall transport box dimension  
472 x 439 x 398 / 308 / 218 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 2 x 90 mm,  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 292790 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 292790 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 292790 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: devices, panels  
Max. product weight: up to 10.0 kg



SN 300760

Max. product surface: **300 x 70 x 60 mm**

### Product data

Overall transport box dimension  
152 x 142 x 380 mm  
efco 0201 slotted-type box with top and bottom flaps  
Quality B 1.40  
Scope of delivery = Clam Shell 1 unit,  
Transport box 1 unit

| Article-code          | Version                            |
|-----------------------|------------------------------------|
| <b>SN 300760 S</b>    | NORMLine 75, PU film 75 microns    |
| <b>SN 300760 ESDS</b> | ESDLine 75, PU film ESD 75 microns |
| <b>SN 300760 EC8S</b> | ECOLine 80, PE film 80 microns     |

Applications: Wine bottle, analyzer  
Max. product weight: up to 2 kg

**Module dimensions  
for pallets!**



SW 302060

Max. product surface: **300 x 200 mm**

### Product data

Overall transport box dimension  
400 x 300 x 270-158 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and 3 additional creases,  
Quality BC 2.20  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 302060 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 302060 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 302060 EC8S</b> | ECOLine, PE film 80 microns          |
| <b>SW 302060 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: small devices, mechatronics  
Max. product weight: up to 6.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging

**Module dimensions  
for pallets!**



SW 302080

Max. product surface: **300 x 200 mm**

### Product data

Overall transport box dimension  
400 x 300 x 270 - 158 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and 3 additional creases,  
Quality BC 2.20  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 302080 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 302080 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 302080 EC8S</b> | ECOLine, PE film 80 microns          |
| <b>SW 302080 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: small devices, mechatronics, drives  
Max. product weight: up to 10.0 kg

**Module dimensions  
for pallets!**



SW 303070

Max. product surface: **300 x 300 mm**

### Product data

Overall transport box dimension  
387 x 387 x 338 / 258 / 178 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 2 x 80 mm,  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code          | Version                              |
|-----------------------|--------------------------------------|
| <b>SW 303070 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 303070 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 303070 EC8S</b> | ECOLine, PE film 80 microns          |
| <b>SW 303070 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: small devices, panels, mechatronics  
Max. product weight: up to 7.0 kg



SW 3433100

Max. product surface: **340 x 330 mm**

### Product data

Overall transport box dimension 506x486x330/240 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 90 mm,  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code           | Version                              |
|------------------------|--------------------------------------|
| <b>SW 3433100 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 3433100 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 3433100 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: devices, mechatronics  
Max. product weight: up to 15.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



Max. product surface: **400 x 300 mm**

### Product data

Overall transport box dimension 500x400x330/285/240mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional crease of 2 x 45 mm,  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

**SW 4030100 S**

NORMLine 100, PU film 100 microns

**SW 4030100 ESDS**

ESDLine 100, PU film ESD 100 microns

**SW 4030100 MS**

MAXILine 150, PU film 150 microns

Applications: devices, mechatronics  
Max. product weight: up to 15.0 kg



Max. product surface: **450 x 440 mm**

### Product data

Overall transport box dimensions  
597 x 534 x 228 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.40  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

**SW 454490 S**

NORMLine 100, PU film 100 microns

**SW 454490 ESDS**

ESDLine 100, PU film ESD 100 microns

**SW 454490 MS**

MAXILine, PU film 150 microns

Applications: devices, panels, mechatronics  
Max. product weight: up to 12.0 kg



Max. product surface: **450 x 440 mm**

### Product data

Overall transport box dimension  
597 x 534 x 598 / 498 / 398 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional creases of 2 x 100 mm,  
Quality BC 2.40  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

### Article-code

### Version

**SW 4544180 S**

NORMLine 100, PU film 100 microns

**SW 4544180 ESDS**

ESDLine 100, PU film ESD 100 microns

**SW 4544180 MS**

MAXILine 150, PU film 150 microns

Applications: 17" CRT monitors, instruments, mechatronics  
Max. product weight: up to 30.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



SW 4646150

Max. product surface: **460 x 460 mm**

### Product data

Overall transport box dimensions  
610 x 568 x 328 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code           | Version                              |
|------------------------|--------------------------------------|
| <b>SW 4646150 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 4646150 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 4646150 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: displays up to 19", instruments  
Max. product weight: up to 20.0 kg



SW 5030120

Max. product surface: **500 x 300 mm**

### Product data

Overall transport box dimension  
644 x 404 x 483 / 433 / 383 / 333 / 283 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional creases of 4 x 50 mm,  
Quality BC 2.40  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code           | Version                              |
|------------------------|--------------------------------------|
| <b>SW 5030120 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 5030120 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 5030120 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: 19" devices, control panels, instruments  
Max. product weight: up to 20.0 kg



SW 5040160

Max. product surface: **500 x 400 mm**

### Product data

Overall transport box dimension  
648 x 504 x 558 / 508 / 458 / 408 / 358 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional creases of 4 x 50 mm,  
Quality BC 2.40  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code           | Version                              |
|------------------------|--------------------------------------|
| <b>SW 5040160 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 5040160 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 5040160 MS</b>   | MAXILine, PU film 150 microns        |

Applications: 19" devices, instruments  
Max. product weight: up to 25.0 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

## Suspension packaging



SW 5050160

Max. product surface: **500 x 500 mm**

### Product data

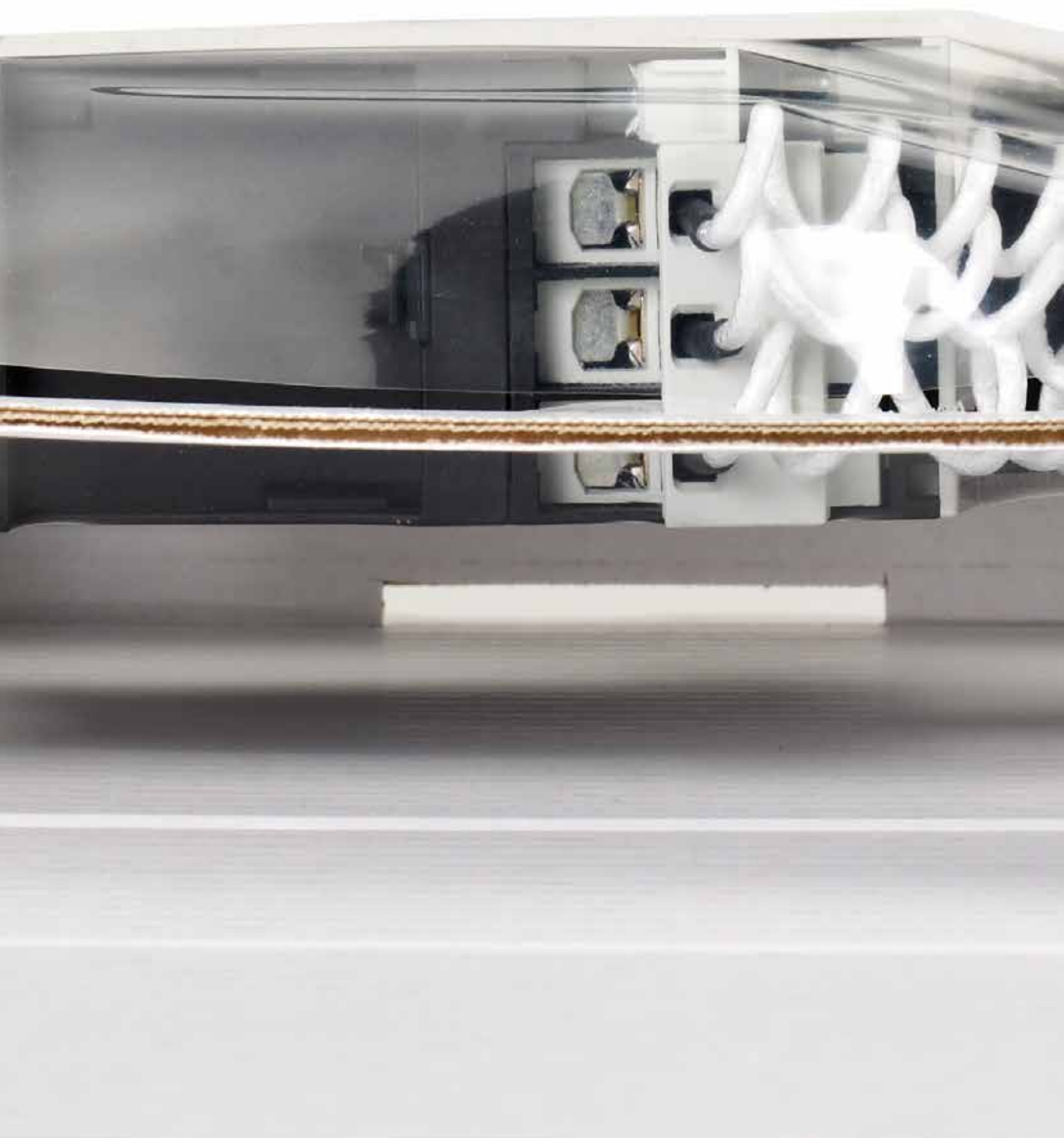
Overall transport box dimension  
648 x 604 x 558 / 508 / 458 / 408 / 358 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
and additional creases of 4 x 50 mm,  
Quality BC 2.50  
Scope of delivery = Suspension cushion 2 units,  
Transport box 1 unit

| Article-code           | Version                              |
|------------------------|--------------------------------------|
| <b>SW 5050160 S</b>    | NORMLine 100, PU film 100 microns    |
| <b>SW 5050160 ESDS</b> | ESDLine 100, PU film ESD 100 microns |
| <b>SW 5050160 MS</b>   | MAXILine 150, PU film 150 microns    |

Applications: 19" to 21" CRT monitors, instruments, mechatronics  
Max. product weight: up to 30.0 kg



Attention: Here comes  
something special!



Different Products

hybrid  
fixing  
cushioning  
suspended transport

EmbaProtec® OneSolution

reusable  
fast, simple packaging  
protection against shocks / vibrations  
reduction of storage costs  
product cushioning / fixing at the same time

# Emba-One®

Different Products - One Solution

The best from 2 systems combined!





## Properties

- Product cushioning and product fixing at the same time
- Perfectly adapts to various product contours and heights
- Suspended transport
- Only one inner component necessary
- Also with attached transport box possible

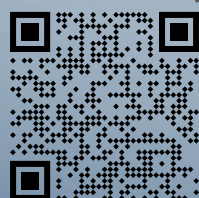
## Benefits

- Reduction in the variety of packaging
- Replaces expensive cushion systems
- Reusable packaging system
- Offers high protection against shocks and vibrations

## Uses

- Reduction of labour costs
- Reduction of storage costs
- A solution for lots of products
- Reduce packaging costs

## Assembly Guide:

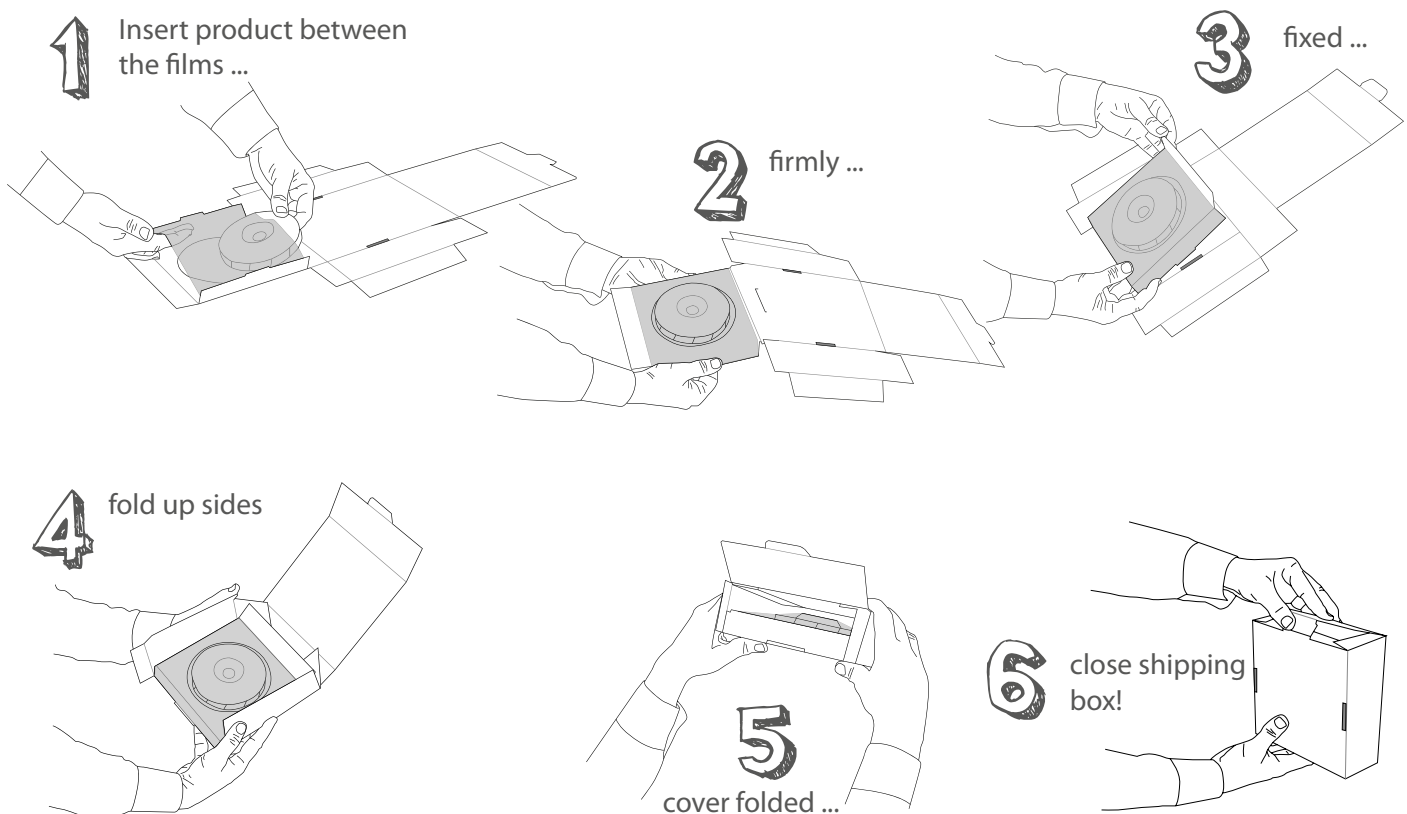


## Different Products – One Solution

German registered design DE 20 2011 109 294

Thanks to Emba One®, you can be just as varied as your products themselves. This flexible system is compact and holds your product firmly in position during transit. With this process, Emba One® combines the good properties of product cushioning and product fixing.

Emba One® can individually adapt to even the most varied product contours. Due to the „suspended delivery“, there is a very high degree of protection against shocks and vibrations. Thanks to the clever construction, you only need an inner section (standard systems usually require 2-3 parts). The packaging time is considerably reduced. In the process, flat and also greater product dimensions can be sent in the same packaging.



## The best from 2 systems combined!

No time-consuming folding as in previous systems is required here. Your product is quickly and simply packaged so that it is ready for sending.

Reduce your storage volumes as far fewer packaging sizes are needed.

Emba One® means that you can benefit from an environmentally friendly and reusable packaging system and automatically make a contribution to the environment. The carbon footprint is considerably less than in the case of standard packaging (e.g. foam). The packaging can be fed unseparated into the waste paper cycle.



### Properties

- Product cushioning and product fixing at the same time
- Perfectly adapts to various product contours and heights
- Suspended transport
- Only one inner component necessary
- Also with attached transport box possible

### Benefits

- Reduction in the variety of packaging
- Replaces expensive cushion systems
- Reusable packaging system
- Offers high protection against shocks and vibrations

### Uses

- Reduction of labour costs
- Reduction of storage costs
- A solution for lots of products
- Reduce packaging costs



**Version:**  
Single insert.

### The immediate delivery program

| Maximum product size (mm) | Article code      |
|---------------------------|-------------------|
| 120 x 100 x 40 mm         | O 121004 Q / ESQ  |
| 200 x 100 x 60 mm         | O 201006 S / ESDS |



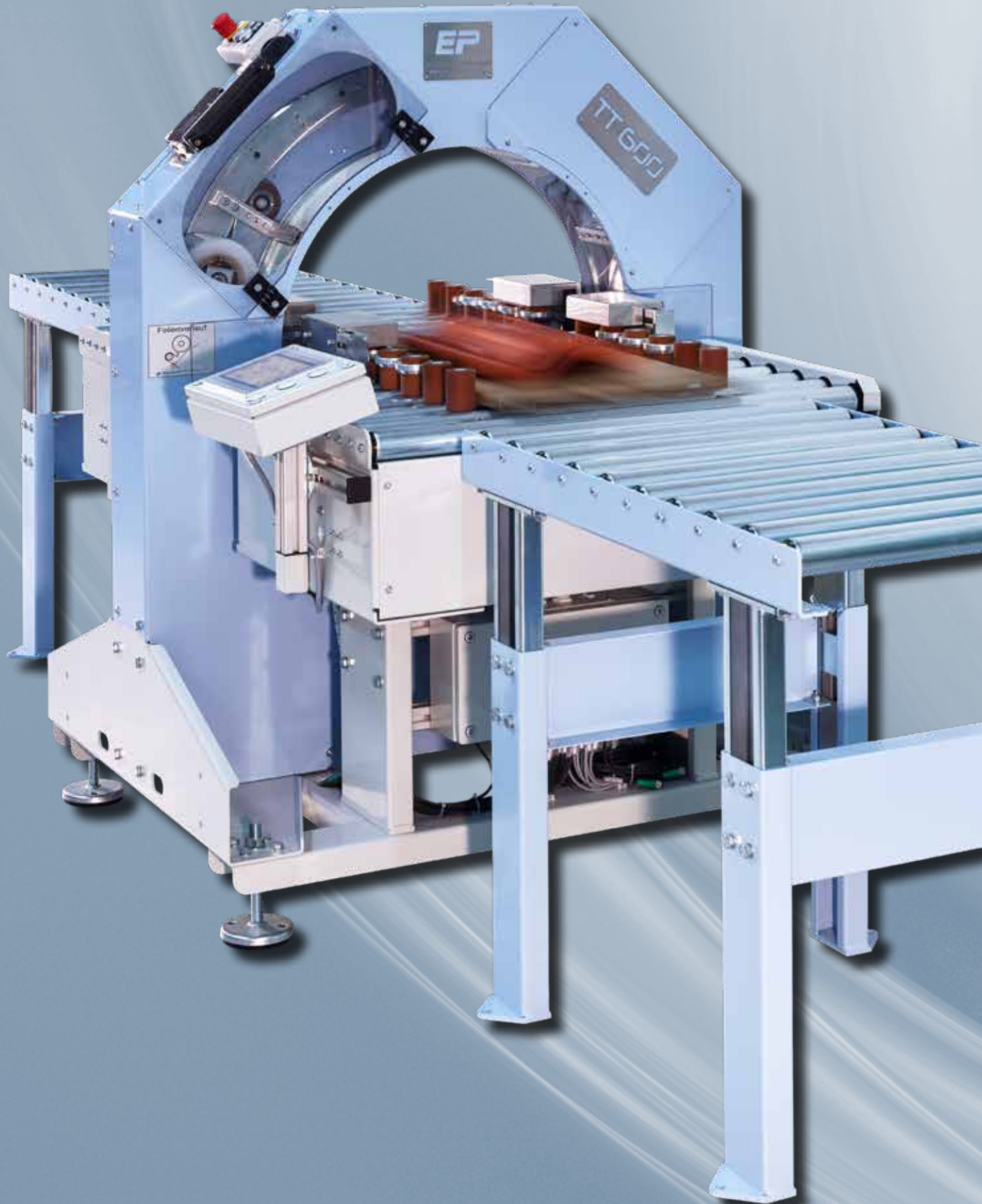
automatic  
large packaging volumes  
without defined order  
precise process cost estimation

Emba-Protec®

for products with various  
heights and weights  
constant packaging speed  
reducing amount of packaging

# Emba-TrayTec®

## Automatic Packaging Solution





If you simply want  
to pack everything!



### **Application:**

For large packaging volumes.

For products with various heights and weights.

### **Features:**

Automatic packaging without defined order.

### **Advantages:**

Constant packaging speed.

Precise process cost estimation.

The amount of packaging types is reduced to a few sizes.

## Automatic Packaging Solution

### Emba - TrayTec®

- significant degree of automation for constantly changing types of products, weight: 0.01 - 160 kg
- constant packaging speed
- standardization of packaging types
- significant reduction of packaging costs
- optimal product protection, even in case of packing units of different heights
- no additional filling materials necessary
- very high packaging quality and professional appearance
- very low power consumption, since no thermal processes necessary
- no set-up time
- silent operation of the machine
- small footprint of the machine
- can be seamlessly integrated into existing packaging lines
- immediately ready for use
- automatic tray dispenser available on request



### Our technology

The product is placed onto a defined tray. The shape, the dimensions or the heights of the product do not matter. The important thing is that it fits the size of the provided shipping box.

The automatic feed is used to vertically wrap both - the tray and the product - with the special stretch film. The product is firmly clamped onto the corrugated board format and can be securely shipped in a box.



## Automatic Packaging Solution

This tray packaging machine ensures perfect product protection, high-speed packaging and low costs. This easy-to-operate machine offers maximum flexibility for small and large product lines. The packaging process still remains the same even for **constantly changing products** with **different heights and weights of up to 160 kg**. And the best of it: You reduce the amount of packaging sizes, storage space and time. Filling and cushioning materials are no longer required.

### Application:

For large packaging volumes.

For products with various heights and weights.

### Features:

Automatic packaging without any defined order.

### Advantages:

Constant packaging speed.

Precise process calculation.

The amount of packaging types is reduced to a few sizes.

## Typical shipped goods include:

- **gears**
- **pumps**
- **motors**
- **gear wheels**
- **drives**
- **light- and heavy-weight replacement parts of all types**
- **sensitive machine components from the entire field of process measuring and control technology**

## The Concept

### How does the concept work?

Our team develops the sizes you require based on your daily packaging tasks. Furthermore, the new standard program without tool costs can be used. Once the packages have been checked and found to be in perfect condition, we're ready to start.

You enter into a supply contract for the quantity you require. Then, Emba-Protec will supply you with the wrapping machine, including detailed instructions. All necessary packaging components (trays, film, shipping cartons) are supplied to you on call off. You only pay a fixed set price per packaging supplied. We, of course, will assist you with any queries and wishes for modification. This is part of our customer service.

### Your advantages

- Packaging sizes are standardised and immediately available
- No tool costs
- Significant reduction of packaging times / costs
- Packaging in random sequence is possible
- For products weighing between 0.1 and 160 kg
- No other filling and cushioning materials are required
- Best possible product protection during shipping
- Reduction of storage costs due to small on-call batches

Find the standard size matching your requirements on the following pages. We look forward to advising you!

Example motor



Example 2-DIN radio



Example display



Example head lamp



Example steering shaft



Example pump



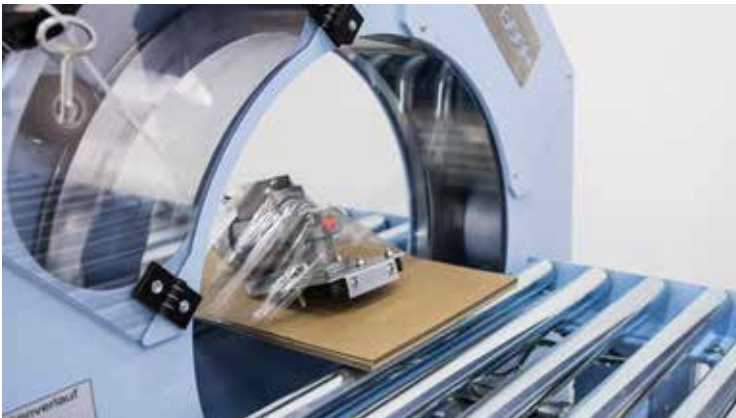
## The Machine Versions

### semi-automatic system



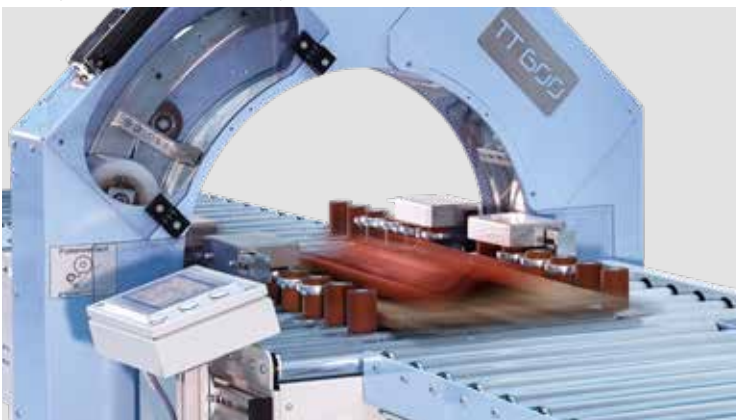
A semi-automatic system with easy handling. For small quantities and few placement options. This system allows for individual wrapping. And your products will always reach their destination safely.

### hybrid version



The hybrid machine covers the gap between the semi-automatic and the fully automatic machine solution, in terms of price and technique.

### fully automatic system



The fully automatic system for high throughput quantities. Up to 6 packing operations per minute are possible! Equipped with many features, e.g. automatic tray detection or a variety of different wrapping programs.

## The Standard Program



TT 161307

Maximum product size: **160 x 130 x 70 mm**

### Product data

Overall transport box dimensions 210 x 170 x 97 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality E 1.40  
Scope of delivery = 1x tray  
1x outer box  
film in rolls

| Article-Code         | Machine Version                   |
|----------------------|-----------------------------------|
| <b>TT 161307 M60</b> | winding ring 600, semi-automatic  |
| <b>TT 161307 H60</b> | winding ring 600, hybrid version  |
| <b>TT 161307 A60</b> | winding ring 600, fully automatic |



TT 302010

Maximum product size: **300 x 200 x 100 mm**

### Product data

Overall transport box dimensions 344 x 251 x 148 mm  
Fefco 0713 with crash-lock base and closing lid  
Quality C 1.40  
Scope of delivery = 1x tray  
1x outer box  
film in rolls

| Article-Code         | Machine Version                   |
|----------------------|-----------------------------------|
| <b>TT 302010 M60</b> | winding ring 600, semi-automatic  |
| <b>TT 302010 H60</b> | winding ring 600, hybrid version  |
| <b>TT 302010 A60</b> | winding ring 600, fully automatic |



TT 352407

Maximum product size: **350 x 240 x 70 mm**

### Product data

Overall transport box dimensions 400 x 300 x 116 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = 1x tray  
1x outer box  
film in rolls

| Article-Code         | Machine Version                   |
|----------------------|-----------------------------------|
| <b>TT 352407 M60</b> | winding ring 600, semi-automatic  |
| <b>TT 352407 H60</b> | winding ring 600, hybrid version  |
| <b>TT 352407 A60</b> | winding ring 600, fully automatic |

Maximum weight depending on surface load.

Special sizes and other machine formats are available on request. We look forward to advising you.

## The Standard Program



TT 352417

Maximum product size: **350 x 240 x 170 mm**

### Product data

Overall transport box dimensions 400 x 300 x 224 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality C 1.30  
Scope of delivery = 1x tray  
1x outer box  
film in rolls

| Article-Code         | Machine Version                   |
|----------------------|-----------------------------------|
| <b>TT 352417 M60</b> | winding ring 600, semi-automatic  |
| <b>TT 352417 H60</b> | winding ring 600, hybrid version  |
| <b>TT 352417 A60</b> | winding ring 600, fully automatic |



TT 533216

Maximum product size: **530 x 320 x 160 mm**

### Product data

Overall transport box dimensions 600 x 400 x 238 mm  
Fefco 0201 slotted-type box with top and bottom flaps and additional crease of 100 mm, Quality BC 2.40  
Scope of delivery = 1x tray, 1x outer box  
film in rolls

| Article-Code         | Machine Version                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| <b>TT 533216 M60</b> | winding ring 600, semi-automatic                                                     |
| <b>TT 533216 H60</b> | winding ring 600, hybrid version                                                     |
| <b>TT 533216 A60</b> | winding ring 600, fully automatic                                                    |
| <b>TT 5332 V</b>     | Reinforcing die cut for heavy products<br>(to be placed on the tray before wrapping) |



TT 533226

Maximum product size: **530 x 320 x 260 mm**

### Product data

Overall transport box dimensions 600 x 400 x 338 mm  
Fefco 0201 slotted-type box with top and bottom flaps and additional crease of 100 mm, Quality BC 2.40  
Scope of delivery = 1x tray, 1x outer box  
film in rolls

| Article-Code         | Machine Version                                                                      |
|----------------------|--------------------------------------------------------------------------------------|
| <b>TT 533226 M60</b> | winding ring 600, semi-automatic                                                     |
| <b>TT 533226 H60</b> | winding ring 600, hybrid version                                                     |
| <b>TT 533226 A60</b> | winding ring 600, fully automatic                                                    |
| <b>TT 5332 V</b>     | Reinforcing die cut for heavy products<br>(to be placed on the tray before wrapping) |

Maximum weight depending on surface load.



Emba-TrayTec® Plus  
Protective Packaging meets high speed



# Emba-TrayTec® Plus

European patent number EP 3 708 518

Until now, shipping sensitive products involved a great deal of effort. There were two key prerequisites to making sensitive, high-quality products ready for shipment: time and costly packaging material. Emba-Protec has created an innovative packaging solution that solves both these problems! You'll already accomplish a great deal by using our cushion-based suspension packaging. Perfect protection at reasonable costs. But using and arranging two cushions is time-consuming when you're dealing with larger volumes. Now you can combine the advantages of the Emba-Protec's cushion-based suspension packaging with speedy automation. **Emba-TrayTec Plus:** one cushion, one packaging process, in far less time. You benefit from all the advantages of the familiar Emba-Swing suspension packaging and the Emba-TrayTec machine system. You save both time and money, considerably cutting your process costs while you're at it.



Prepare the tray ...



Put on the product ...



And wrap it ready for shipment!

## Costs:

- 60 % cheaper than comparable foam solutions
- 40 % cheaper than suspension cushions (you save a cushion)
- Takes up 90 % less storage space compared to foam solutions
- 50 % faster packaging process

## Environment:

- Single-material solution (film content less than 5%)
- Making it the most eco-friendly packaging
- Can be disposed of together with waste paper
- Eliminates all foam packaging that's harmful to the environment. Absolutely all of it!

## Protection:

- Combines the advantages of two tried-and-tested systems
- Also packages products with complicated contours
- Unbeatable protection – even of products that are very shock-sensitive
- Product placed on a cushion for 'floating' transport

## Speed:

- Faster than ever before!

**Suspension cushion  
at the base,  
fixation from the top  
=  
100 % Protection**



# Buzz n' Pack<sup>®</sup>

Packing on command





The fastest packaging  
we know!

### **Application:**

Decentralized packaging

E-Commerce

Designed for logistics and contract packaging operations

### **Features:**

Machine packaging at the touch of a button

High protection and cushioning function

### **Advantages:**

Consistent high packing speeds

Always the same packing process

Consistent packaging costs

Easy to use machine

## Packing on command

### The advantages at a glance:

- Up to 4 packaging cycles per minute
- 4 standard sizes covering everything
- Adjustable between sizes in seconds
- No programming involved
- Always consistent packing process, no matter who is packing
- No fluctuations in consumption
- Employee training takes 5 minutes
- Clearly safest product protection due to firm fixation
- Significantly less packaging waste at the end customer
- Dust-free shipping
- Use of recycle film with up to 65% content possible
- Immediately ready for use, no thermal energy heavy current or compressed air is necessary
- Small compact machine that fits everywhere



### The method:

The tray is adjusted on 4 sizes with a hand lever which is in close proximity.

The appropriate tray (S, M, L, XL) is put placed on the machine, the holder fixes the tray automatically. Then the goods to be shipped (several are also possible) are placed on the tray. By pressing a button (buzzer) the packing process is started. Simultaneously the employee can erect the shipping carton or prepare shipping documents. Immediately afterwards, the tray is wrapped and ready to be placed in the shipping carton.

With this machine system, everything is child's play and perfectly packed. The costs are always the same and included in the tray price. The machine system is provided for you, foil included. You have no fluctuations due to more or less filling material. Goods up to 10 kg are no problem. Due to perfectly designed outer cartons and reinforcements, shipping is fast and safe.



Buzz n'Pack 600er



Buzz n'Pack 400er



### Place tray

The tray is placed up to stop.  
After that the tray locks automatically.



### Place product

The goods to be packed are placed on the  
positioned tray (even more than one product  
is possible).



### Press buzzer

The buzzer starts the packing process. The goods  
are wrapped tightly with film (of course with  
recycled content film) onto the tray. During the  
packaging process, the user can prepare other  
activities (e.g. assemble the outer carton). The  
buzzer housing is magnetic and can be placed  
anywhere.



### into the box!

Your product is ready for dispatch.

## The Standard Programm



BNP S

Maximum product size: **200 x 160 x 70 mm**

### Product data S

Overall transport box dimensions 246 x 190 x 112 mm  
Fefco 0703 with crash-lock base and closing lid  
with self-adhesive strip and tear strip  
or as folding box Fefco 0201  
Quality B 1.20

| Article-Code     | Packing type                                   |
|------------------|------------------------------------------------|
| <b>BNPS</b>      | Tray S                                         |
| <b>BNPSV</b>     | Reinforcement                                  |
| <b>UK703BNPS</b> | Outer carton with quick release fastener F0703 |
| <b>UK201BNPS</b> | Folding box outer carton F0201                 |



BNP M

Maximum product size: **270 x 200 x 80 mm**

### Product data M

Overall transport box dimensions 316 x 236 x 122 mm  
Fefco 0703 with crash-lock base and closing lid  
with self-adhesive strip and tear strip  
or as folding box Fefco 0201  
Quality B 1.30

| Article-Code     | Packing type                                   |
|------------------|------------------------------------------------|
| <b>BNPM</b>      | Tray M                                         |
| <b>BNPMV</b>     | Reinforcement                                  |
| <b>UK703BNPM</b> | Outer carton with quick release fastener F0703 |
| <b>UK201BNPM</b> | Folding box outer carton F0201                 |



BNP L

Maximum product size: **350 x 230 x 220 mm**

### Product data L

Overall transport box dimensions 406 x 266 x 262 mm  
Fefco 0703 with crash-lock base and closing lid  
with self-adhesive strip and tear strip  
or as folding box Fefco 0201  
Quality B 1.40

| Article-Code     | Packing type                                   |
|------------------|------------------------------------------------|
| <b>BNPL</b>      | Tray L                                         |
| <b>BNPLV</b>     | Reinforcement                                  |
| <b>UK703BNPL</b> | Outer carton with quick release fastener F0703 |
| <b>UK201BNPL</b> | Folding box outer carton F0201                 |



BNP XL

Maximum product size: **530 x 350 x 250 mm**

### Product data XL

Overall transport box dimensions 602 x 402 x 303 mm  
Fefco 0703 with crash-lock base and closing lid  
with self-adhesive strip and tear strip  
or as folding box Fefco 0201  
Quality EB 2.30

| Article-Code      | Packing type                                   |
|-------------------|------------------------------------------------|
| <b>BNPXL</b>      | Tray XL                                        |
| <b>BNPXLV</b>     | Reinforcement                                  |
| <b>UK703BNPXL</b> | Outer carton with quick release fastener F0703 |
| <b>UK201BNPXL</b> | Folding box outer carton F0201                 |

### Bins



Lockable bins can be ordered separately for the standard trays in sizes **S, M, and L**. **These are especially well-suited for loose goods.**

**Article No.: BNP-SSCH**  
**Article No.: BNP-MSCH**  
**Article No.: BNP-LSCH**

### Half-height Carton



Our proven outer carton in **size L** is now also available on request in **half-height**.

**Article No.: UK201BNPLH**  
**Article No.: UK703BNPLH**

### Emba-Swing



**Especially suitable for sensitive goods that require bottom cushioning:** The right suspension cushions for the 3 Buzz n'Pack® sizes M-XL

**For M: SW201050**  
**For L: SW281880**  
**For XL: SW282380**

With the four standard sizes shown on the left, you can cover all of your packaging contents.

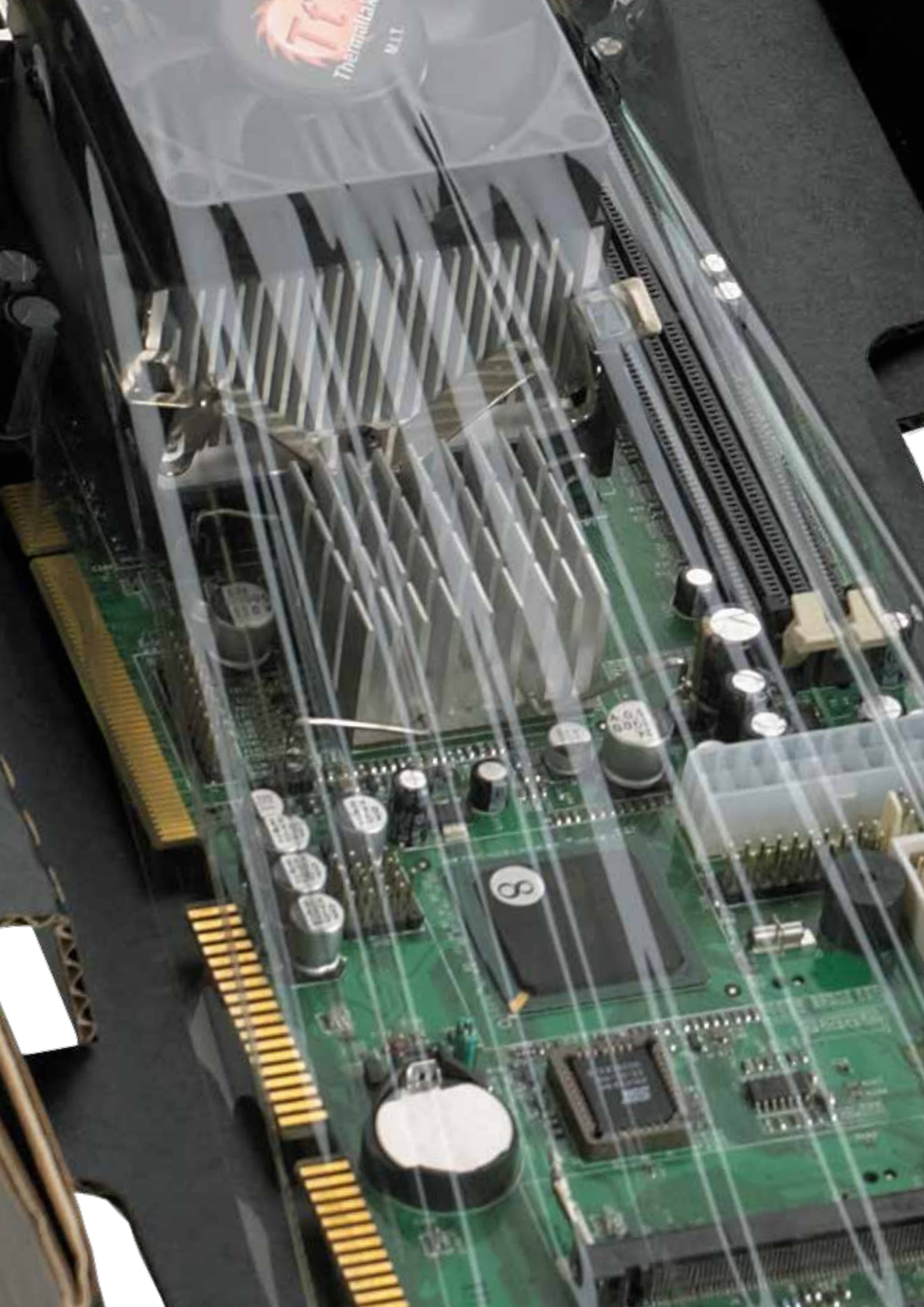
You can choose from 2 different shipping carton types.

Illustrations on the right: Envelope carton with quick release fastener, Fefco 0703, in size M.



Example application

Maximum weight depending on surface load.



fits perfectly  
fast simple packaging  
economical  
high degree of protection  
**SPECIAL PACKAGING**  
consumer electronics  
Laptops / Tablet-PCs  
TFT / LCD monitors  
printed circuit boards  
embedded systems

# Special packaging

Consumer electronics



**Application:**

For typical consumer electronics products

**Features:**

Well-matched packaging systems for different fields of application

**Advantages:**

Superior shipping protection for high-quality consumer electronics equipment

The amount of packaging types is reduced



# Special packaging

For Laptops from 10 to 17 inch

## Special packaging for Laptops

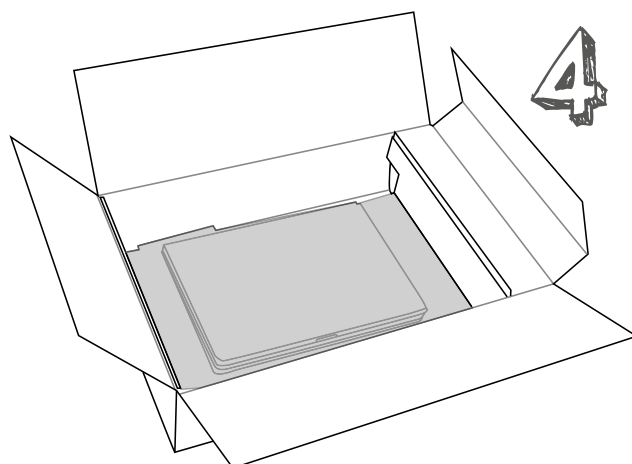
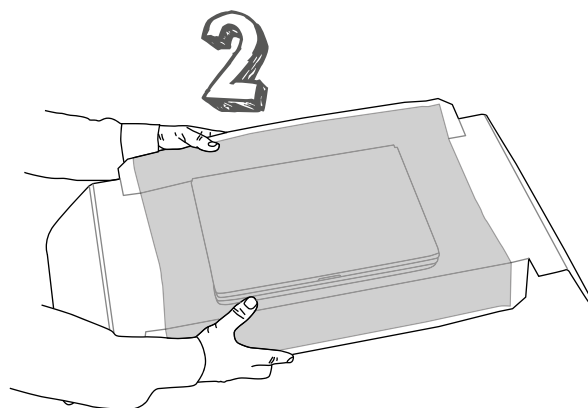
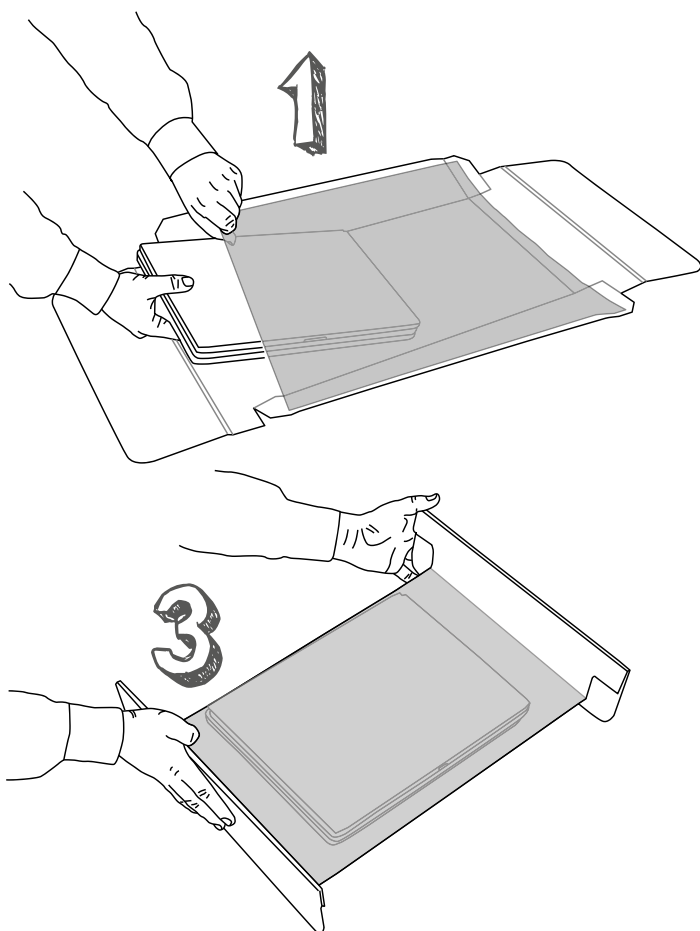
- high degree of protection for various laptops
- drop tested according to UPS and DIN ISO 2248 standards
- reduction of packaging diversity by up to 90 %
- quick handling – easy packaging process
- with additional compartment for accessories
- reduction of process costs (procurement, storing, shipment)
- environment-friendly, can be disposed of with waste paper
- reusable
- professional appearance
- economical due to standard program (no tool costs)



## The method

Select the matching standard size according to the dimensions of your laptop. Now, place the laptop on the corrugated board under the retention packaging film. Folding down the flaps on the sides stretches the film and the laptop is clamped onto the corrugated board format. Your device is now held in place

and secured against slipping out. Finally, put up the opposing flaps. Your laptop is safely enwrapped. The hollow bottom ensures that there is a gap between your laptop and the walls on all sides, providing additional protection against any external influences. All that's left to do is put it into the box!



# Special packaging

For Laptops from 10 to 17 inch

## Application examples

With this special packaging based on the Emba-FLEX® retention packaging, you have an all-purpose system for secure and cost effective shipping of your laptops.

In addition, devices with different dimensions and weights can be handed quickly and easily especially if many shipments are planned. Also product accessories are packed professionally and securely in accessory compartments.

In addition to our immediate delivery program listed in the table below we also offer existing special packaging as well as new developments according to your individual needs.



accessory compartment  
for power supply

## The immediate delivery program

| Product to be shipped | Article code   | Max. product weight | Page |
|-----------------------|----------------|---------------------|------|
| Netbooks 13 Zoll      | FL 312104 ECSZ | ca. 2,5 kg          | 126  |
| Laptops bis 15 Zoll   | FL 362604 ECSZ | ca. 3,5 kg          | 126  |
| Laptops bis 17 Zoll   | FL 473005 ECSZ | ca. 4,5 kg          | 126  |

Available in sets of 50 and more. Special sizes on request.



# Special packaging

For Laptops from 13 to 17 inch



Maximum product size: **310 x 210 x 40 mm**

## Product data

Overall transport box dimensions 438 x 268 x 96 mm  
Fefco 0201 slotted-type box with top and bottom flaps and accessory compartment,  
Quality B 1.20  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                        |
|-----------------------|--------------------------------|
| <b>FL 312104 ECSZ</b> | ECOLine 50, PE film 50 microns |

You can also get the box without compartment.  
Please use the following article-code:

|                      |                                |
|----------------------|--------------------------------|
| <b>FL 312104 ECS</b> | ECOLine 50, PE film 50 microns |
|----------------------|--------------------------------|

Applications: 13" laptops  
Max. product weight: up to 2500 gr.



Maximum product size: **360 x 260 x 40 mm**

## Product data

Overall transport box dimensions 504 x 318 x 100 mm  
Fefco 0201 slotted-type box with top and bottom flaps and accessory compartment,  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                        |
|-----------------------|--------------------------------|
| <b>FL 362604 ECSZ</b> | ECOLine 50, PE film 50 microns |

You can also get the box without compartment.  
Please use the following article-code:

|                      |                                |
|----------------------|--------------------------------|
| <b>FL 362604 ECS</b> | ECOLine 50, PE film 50 microns |
|----------------------|--------------------------------|

Applications: 15" laptops  
Max. product weight: up to 3500 gr.



Maximum product size: **470 x 300 x 50 mm**

## Product data

Overall transport box dimensions 646 x 366 x 112 mm  
Fefco 0201 slotted-type box with top and bottom flaps and accessory compartment,  
Quality B 1.40  
Scope of delivery = Fixing insert 1 unit,  
Transport box 1 unit

| Article code          | Version                        |
|-----------------------|--------------------------------|
| <b>FL 473005 ECSZ</b> | ECOLine 50, PE film 50 microns |

You can also get the box without compartment.  
Please use the following article-code:

|                      |                                |
|----------------------|--------------------------------|
| <b>FL 473005 ECS</b> | ECOLine 80, PE film 80 microns |
|----------------------|--------------------------------|

Applications: 17" laptops  
Max. product weight: up to 4500 gr.

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

# Special packaging

## For Tablet-PCs



FL 191203 Q

Maximum product size: **190 x 120 x 30 mm**

### Product data

Overall dimensions 250 x 151 x 57 mm

Quality E 1.50

Scope of delivery = Retention packaging with attached transport box  
1 unit

### Article-Code

### Version

**FL 191203 Q**

NORMLine 50, PU film 50 microns

**FL 191203 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 191203 ECQ**

ECOLine 50, PE film 50 microns

Applications: Festplatten, Kleingeräte, Platinen  
Max. product weight: up to 1000 Gramm



FL 231502

Maximum product size: **230 x 150 x 20 mm**

### Product data

Overall dimensions 338 x 211 x 47 mm  
and accessory compartment,

Quality E1.40

Scope of delivery = Retention packaging with attached transport box  
1 unit

including accessory compartment

### Article-Code

### Version

**FL 231502 S**

NORMLine 50, PU film 50 microns

**FL 231502 ESDS**

ESDLine 50, PU film ESD 50 microns

**FL 231502 EC6S**

ECOLine 50, PE film 50 microns

Applications: Tablet-PC's, plates  
Max. product weight: up to 1000 Gramm



FL 241801 Q

Maximum product size: **240 x 180 x 10 mm**

### Product data

Overall dimensions 342 x 230 x 44 mm

Quality E 1.50

Scope of delivery = Retention packaging with attached transport box  
1 unit

### Article-code

### Version

**FL 241801 Q**

NORMLine 50, PU film 50 microns

**FL 241801 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 241801 ECQ**

ECOLine 80, PE film 80 microns

Applications: Tablet-PCs, plates  
Max. product weight: up to 1500 Gramm

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

# Special packaging

## For Smartphones



FL 150702 Q

Maximum product size: **150 x 70 x 20 mm**

### Product data

Overall dimensions 200 x 107 x 49 mm

Quality E 1.50

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article-code

### Ausführung

**FL 150702 Q**

NORMLine 50, PU Folie 50 my

**FL 150702 ESQ**

ESDLine 50, PU Folie ESD 50 my

**FL 150702 ECQ**

ECOLine 50, PE Folie 50 my

Einsatzbereich: Smarthphones, Platinen, flache Bauteile  
Max. Produktgewicht: bis ca. 750 Gramm



FL 160801 Q

Maximum product size: **160 x 80 x 10 mm**

### Product data

Overall dimensions 195 x 110 x 50 mm

Quality E 1.40

Scope of delivery = Retention packaging with  
attached transport box  
1 unit

### Article-code

### Version

**FL 160801 Q**

NORMLine 50, PU film 50 microns

**FL 160801 ESQ**

ESDLine 50, PU film ESD 50 microns

**FL 160801 ECQ**

ECOLine 80, PE film 80 microns

Applications: Smartphones, circuit boards  
Max. product weight: up to 750 Gramm



# Monitors





# Special packaging

For monitors from 17 to 27 inch

## Monitors

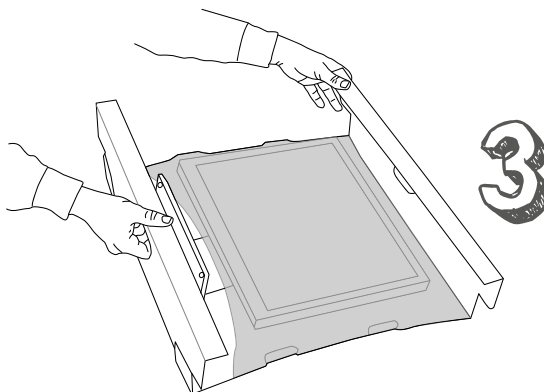
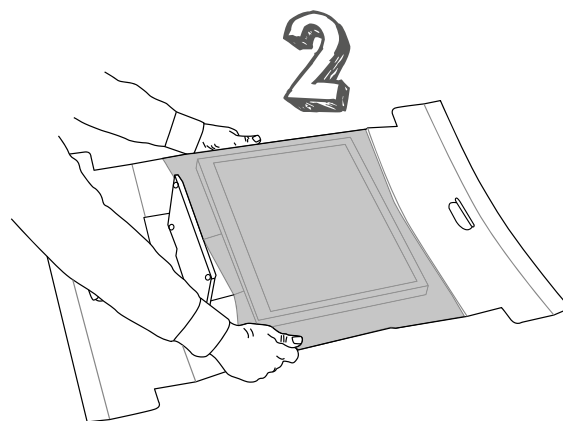
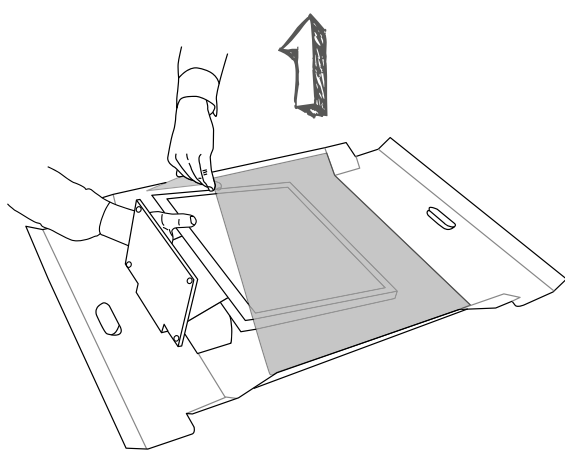
- high degree of protection for various monitors
- reduction of packaging diversity by up to 90 %
- quick handling – easy packaging process
- hollow bottom provides storage space for accessories
- reduction of process costs (procurement, storing, shipment)
- environment-friendly, can be disposed of with waste paper
- reusable
- professional appearance
- economical due to standard program (no tool costs)



## The method

Place the monitor on the corrugated board under the retention packaging film. The stand has enough space to fit through the universal opening. Folding down the flaps on the sides stretches the film and the monitor is clamped onto the corrugated board format. Your device is now held in place and secured against slipping out.

Finally, put up the opposing flaps. Your monitor is safely enwrapped. The stand fits through the opening. Now place the bottom cushion in the box, then insert the retention packaging. The stand passes through the opening provided in the bottom cushion. All that's left to do is close the box!



# Special packaging

For monitors from 17 to 27 inch

## Application examples

With this special packaging based on the Emba-FLEX® retention packaging, you have an all-purpose system for secure and cost effective shipping of your monitors.

In addition, devices with different dimensions and weights can be handed quickly and easily especially if many shipments are planned. Your product accessories are stored securely and professionally in the hollow bottom. Also the stand fits securely in the opening provided for this purpose.

In addition to our immediate delivery program listed in the table below we also offer existing special packaging as well as new developments according to your individual needs.



## The immediate delivery program

| Product to be shipped            | Article code     | Max. product weight | Page |
|----------------------------------|------------------|---------------------|------|
| Monitor up to 19" (multiple-use) | SW 4646150 S **  | ca. 10 kg           | 134  |
| Monitor up to 27" (multiple-use) | FL 625816 TFTS * | ca. 10 kg           | 134  |

\* Available in sets of 50 and more (1 insert, 1 cushion, 1 box).

\*\* Available in sets of 50 and more (2 cushions, 1 box).

Special sizes on request.



# Special packaging

For monitors from 17 to 27 inch



SW 4646150

## Product data

Overall transport box dimensions 610 x 568 x 328 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Membrane cushion 2 units,  
Transport box 1 unit

## Article code

## Version

**SW 4646150 S**

NORMLine 100, PU film 100 microns

## For multiple-use shipping

Maximum product size: **460 x 460 mm**

Applications: 17" to 19" monitors  
Max. product weight: up to 10.0 kg



FL 625816 Tfts

## Product data

Overall transport box dimensions 769 x 634 x 343 mm  
Fefco 0201 slotted-type box with top and bottom flaps  
Quality BC 2.30  
Scope of delivery = Fixing insert 1 unit,  
Bottom cushion 1 unit,  
Transport box 1 unit

## Article-Code

## Version

**FL 625816 Tfts**

ECOLine 100, PE film 100 my

## for one-way shipping

Maximum product size: **460 x 460 x 180 mm**

Application: **22" - 27"** monitors  
Max. product weight: up to 10 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

**Doc Emba** recommends:



# Television





# Television

for 32 to 60-inch diagonal screens

## Your advantages:

- highest protection for large-size flat screens of up to 50 kg
- upright transport of screens
- quick handling – easy packaging process
- no expensive foam packaging or wooden boxes necessary
- reduction of process costs (procurement, storing, shipment)
- environment-friendly, can be disposed of with waste paper
- reusable
- economical due to standard program (no tooling costs)



This cushion solution has been designed for large-size flat screens and flat panels with or without a stand. It is tailor-made for 32 to 60-inch diagonal screens. Smaller screen diagonals on request.

## The method

Our special packaging for screens is based on the suspension packaging Emba-Swing®. The corner suspension cushions can accommodate different display formats ranging from 32 to 60 inches. This version is especially useful in cases where a stand is pre-installed.

Due to the 4 cushions no stress is applied to any side of the screen. This system allows to pack screens in various dimensions. The outer box will be designed as an individual telescopic packaging.



for 32 to 60-inch diagonal screens



## Product data

Quality BC 2.30

Scope of delivery = Suspension cushion 1 unit

## Article-Code

## Version

**SW 2206100 M**

MAXILine 150, PU film 150 my

for televisions up to 60 inches

Area of application: Televisions, flat panels

Max. Product weight: up to approx. 50 kg

The indicated max. weights are approximate values and can vary depending on the product to be shipped.

And last but not least:  
boxes, boxes, boxes ...!



# Shipping boxes

off-the-shelf

**You only need transport boxes for the dispatch?**

| Article code   | Quality | Inner dimensions (mm)<br>Length x Width x Height | Out dimensions (mm)<br>Length x Width x Height |
|----------------|---------|--------------------------------------------------|------------------------------------------------|
| UK201BNPS      | B 1.20  | 240 x 184 x 100                                  | 245 x 189 x 110                                |
| UK703BNPS      | B 1.20  | 240 x 184 x 100                                  | 245 x 189 x 112                                |
| UK201BNPM      | B 1.20  | 310 x 230 x 110                                  | 315 x 235 x 120                                |
| UK703BNPM      | B 1.20  | 310 x 230 x 110                                  | 315 x 235 x 122                                |
| UK201BNPL      | B 1.40  | 400 x 260 x 250                                  | 405 x 265 x 260                                |
| UK703BNPL      | B 1.40  | 400 x 260 x 250                                  | 405 x 265 x 262                                |
| UK201BNPXL     | EB 2.30 | 593 x 393 x 285                                  | 600 x 400 x 299                                |
| UK703BNPXL     | EB 2.30 | 593 x 393 x 285                                  | 600 x 400 x 302                                |
| UK EV 271206** | E 1.30  | 345 x 150 x 100                                  | 349 x 154 x 108                                |
| UK EV 271802*  | B 1.30  | 305 x 270 x 65                                   | 330 x 280 x 71                                 |
| UK EV 291507** | E 1.30  | 345 x 175 x 120                                  | 349 x 179 x 128                                |
| UK EV 311209** | B 1.30  | 350 x 220 x 140                                  | 356 x 226 x 152                                |
| UK EV 392804*  | B 1.40  | 440 x 400 x 70                                   | 465 x 410 x 76                                 |
| UK EV 402512** | B 1.40  | 460 x 317 x 180                                  | 466 x 326 x 192                                |
| UK EV 453105*  | B 1.40  | 500 x 420 x 85                                   | 525 x 430 x 91                                 |
| UK FL 101004   | E 1.20  | 140 x 115 x 60                                   | 145 x 120 x 67                                 |
| UK FL 120804   | E 1.40  | 205 x 165 x 90                                   | 210 x 170 x 97                                 |
| UK FL 120905   | B 1.30  | 151 x 125 x 71                                   | 158 x 132 x 82                                 |
| UK FL 140804   | E 1.20  | 165 x 111 x 60                                   | 170 x 116 x 67                                 |
| UK FL 141004   | B 1.30  | 170 x 170 x 73                                   | 176 x 176 x 84                                 |
| UK FL 151504   | B 1.30  | 192 x 176 x 75                                   | 199 x 183 x 86                                 |
| UK FL 151506   | B 1.30  | 192 x 176 x 98                                   | 199 x 183 x 109                                |
| UK FL 161002*  | E 1.2   | 230 x 140 x 42                                   | 246 x 146 x 46                                 |
| UK FL 161204*  | E 1.20  | 175 x 149 x 47                                   | 182 x 165 x 52                                 |
| UK FL 161205*  | E 1.20  | 175 x 149 x 72                                   | 182 x 165 x 75                                 |
| UK FL 161210   | B 1.30  | 194 x 160 x 128                                  | 200 x 167 x 139                                |
| UK FL 180906   | B 1.30  | 189 x 108 x 85                                   | 196 x 115 x 96                                 |
| UK FL 181004   | E 1.20  | 213 x 143 x 69                                   | 218 x 148 x 76                                 |
| UK FL 181006   | B 1.30  | 209 x 151 x 96                                   | 214 x 156 x 109                                |
| UK FL 191606   | B 1.30  | 218 x 218 x 93                                   | 224 x 224 x 104                                |
| UK FL 202006   | B 1.30  | 242 x 228 x 88                                   | 249 x 235 x 99                                 |
| UK FL 202008   | B 1.30  | 242 x 228 x 108                                  | 249 x 235 x 119                                |
| UK FL 221506   | B 1.30  | 248 x 192 x 88                                   | 255 x 199 x 99                                 |
| UK FL 221508   | B 1.30  | 248 x 192 x 108                                  | 255 x 199 x 119                                |
| UK FL 231502*  | E 1.40  | 324 x 205 x 43                                   | 338 x 211 x 47                                 |
| UK FL 231806   | B 1.30  | 297 x 205 x 76                                   | 300 x 210 x 89                                 |
| UK FL 241004   | B 1.30  | 300 x 147 x 82                                   | 306 x 153 x 92                                 |
| UK FL 252506   | C 1.40  | 292 x 286 x 95                                   | 300 x 295 x 108                                |
| UK FL 252508   | C 1.40  | 292 x 286 x 125                                  | 300 x 295 x 138                                |
| UK FL 281607   | B 1.30  | 330 x 227 x 108                                  | 335 x 232 x 121                                |
| UK FL 281812** | C 1.30  | 316 x 288 x 162                                  | 325 x 297 x 178                                |
| UK FL 292606   | C1.30   | 422 x 330 x 92                                   | 452 x 339 x 98                                 |
| UK FL 300905*  | B 1.30  | 330 x 132 x 64                                   | 352 x 143 x 72                                 |
| UK FL 302007   | C 1.40  | 335 x 242 x 105                                  | 344 x 251 x 118                                |
| UK FL 302010   | C 1.40  | 335 x 242 x 135                                  | 344 x 251 x 148                                |

\*Fefco 0427, \*\*Fefco 0201

Pick what you need from this large overview:

| Article code    | Quality | Inner dimensions (mm)<br>Length x Width x Height | Out dimensions (mm)<br>Length x Width x Height |
|-----------------|---------|--------------------------------------------------|------------------------------------------------|
| UK FL 302214**  | C 1.30  | 340 x 330 x 184                                  | 349 x 339 x 200                                |
| UK FL 303008    | C 1.40  | 392 x 335 x 113                                  | 400 x 343 x 126                                |
| UK FL 312104    | B 1.20  | 370 x 262 x 84                                   | 376 x 268 x 96                                 |
| UK FL 342012**  | C 1.30  | 380 x 263 x 146                                  | 389 x 272 x 162                                |
| UK FL 342505    | BC 2.30 | 400 x 332 x 110                                  | 414 x 346 x 138                                |
| UK FL 352008    | C 1.40  | 385 x 283 x 110                                  | 394 x 292 x 123                                |
| UK FL 352504*   | C 1.40  | 395 x 302 x 105                                  | 435 x 315 x 115                                |
| UK FL 362410**  | C 1.30  | 425 x 295 x 155                                  | 434 x 304 x 171                                |
| UK FL 362604    | B 1.40  | 430 x 312 x 88                                   | 436 x 318 x 100                                |
| UK FL 382508**  | C 1.30  | 440 x 326 x 125                                  | 448 x 334 x 140                                |
| UK FL 402010    | B 1.40  | 470 x 265 x 143                                  | 477 x 272 x 154                                |
| UK FL 402510**  | BC 2.30 | 532 x 320 x 142                                  | 547 x 335 x 170                                |
| UK FL 403005    | BC 2.30 | 542 x 407 x 140                                  | 556 x 421 x 168                                |
| UK FL 403006*   | B 1.40  | 530 x 328 x 80                                   | 552 x 339 x 88                                 |
| UK FL 403211**  | BC 2.30 | 510 x 365 x 175                                  | 538 x 380 x 190                                |
| UK FL 473005    | B 1.40  | 560 x 360 x 100                                  | 566 x 366 x 112                                |
| UK FL 503215**  | BC 2.30 | 600 x 390 x 200                                  | 615 x 395 x 228                                |
| UK FL 504010**  | BC 2.30 | 620 x 465 x 160                                  | 635 x 480 x 188                                |
| UK FL 512305    | B 1.40  | 562 x 300 x 82                                   | 592 x 309 x 88                                 |
| UK FL 513005    | B 1.40  | 562 x 375 x 82                                   | 592 x 384 x 88                                 |
| UK SW 1207**    | B 1.30  | 202 x 152 x 104                                  | 208 x 158 x 117                                |
| UK SW 1313**    | C 1.30  | 195 x 195 x 90                                   | 200 x 200 x 104                                |
| SN 161003       | E 1.20  | 235 x 186 x 75                                   | 242 x 172 x 78                                 |
| UK SW 1717**    | B 1.30  | 230 x 220 x 218                                  | 236 x 226 x 230                                |
| UK SW 191560**  | B 1.30  | 305 x 250 x 175                                  | 311 x 256 x 187                                |
| UK SW 2010**    | C 1.30  | 278 x 176 x 176                                  | 287 x 185 x 190                                |
| UK SW 2011**    | C 1.30  | 293 x 193 x 136                                  | 300 x 200 x 150                                |
| UK SW 2415**    | C 1.30  | 315 x 225 x 178                                  | 324 x 234 x 194                                |
| UK SW 2518**    | C 1.30  | 332 x 295 x 234                                  | 340 x 300 x 246                                |
| UK SW 2525**    | C 1.30  | 326 x 326 x 202                                  | 334 x 334 x 218                                |
| UK SW 2818**    | C 1.30  | 356 x 239 x 240                                  | 364 x 247 x 256                                |
| UK SW 2823**    | BC 2.30 | 408 x 320 x 260                                  | 422 x 334 x 288                                |
| UK SW 2927**    | BC 2.30 | 458 x 425 x 370                                  | 472 x 439 x 398                                |
| SN 300760       | B 1.40  | 146 x 136 x 368                                  | 152 x 142 x 380                                |
| UK SW 3020**    | BC 2.20 | 389 x 289 x 242                                  | 400 x 300 x 270                                |
| UK SW 3030**    | BC 2.30 | 372 x 372 x 310                                  | 387 x 387 x 338                                |
| UK SW 3433**    | BC 2.30 | 492 x 472 x 302                                  | 506 x 486 x 330                                |
| UK SW 4030**    | BC 2.30 | 489 x 389 x 302                                  | 500 x 400 x 330                                |
| UK SW 454490**  | BC 2.40 | 583 x 520 x 200                                  | 597 x 534 x 228                                |
| UK SW 4544180** | BC 2.40 | 583 x 520 x 570                                  | 597 x 534 x 598                                |
| UK SW 4646**    | BC 2.30 | 596 x 554 x 300                                  | 610 x 568 x 328                                |
| UK SW 5030**    | BC 2.40 | 630 x 390 x 455                                  | 644 x 404 x 483                                |
| UK SW 5040**    | BC 2.40 | 634 x 490 x 530                                  | 648 x 504 x 558                                |
| UK SW 5050**    | BC 2.50 | 634 x 590 x 530                                  | 648 x 604 x 558                                |

Module dimensions for pallets

Module dimensions for pallets

Module dimensions for pallets

Module dimensions for pallets

Module dimensions for pallets

\*Fefco 0427, \*\*Fefco 0201, Some „UK SW“ - boxes have extra grooves for different heights.

You can send us a non-binding order using the following questionnaire.  
Or go online and do it: [www.emba-protec.de/en/product-configurator](http://www.emba-protec.de/en/product-configurator)

## 1. Client Information

|            |                      |                     |                      |
|------------|----------------------|---------------------|----------------------|
| Company    | <input type="text"/> | Salutation          | <input type="text"/> |
| Street     | <input type="text"/> | Contact             | <input type="text"/> |
| ZIP/Postc. | <input type="text"/> | Department/Position | <input type="text"/> |
| Branch     | <input type="text"/> | Phone               | <input type="text"/> |
| Web        | <input type="text"/> | E-Mail              | <input type="text"/> |

## 2. Product information / Shipping methods

|                    |                                                |                                                        |                                              |                      |
|--------------------|------------------------------------------------|--------------------------------------------------------|----------------------------------------------|----------------------|
| Product type       | <input type="text"/>                           | Weight                                                 | <input type="text"/>                         | kg                   |
| Product name       | <input type="text"/>                           | Dimensions                                             | <input type="text"/>                         | <input type="text"/> |
| Device variant     | <input type="text"/>                           | optional „from to“                                     | <input type="text"/>                         | mm                   |
| Number of packages | per Year <input type="text"/>                  | per Month <input type="text"/>                         | per Week <input type="text"/>                |                      |
| Sensitive to       | Moisture, oil, grease <input type="checkbox"/> | Electrostatic discharge (ESD) <input type="checkbox"/> | Abrasion/scratching <input type="checkbox"/> |                      |
| Shipping Method    | Individually packaged <input type="checkbox"/> | Bulk good on pallet <input type="checkbox"/>           |                                              |                      |
|                    | Truck <input type="checkbox"/>                 | Sea Freight <input type="checkbox"/>                   | Air Freight <input type="checkbox"/>         |                      |

## 3. Previous packaging material

|                   |                      |                            |                      |
|-------------------|----------------------|----------------------------|----------------------|
| Outer packaging   | <input type="text"/> | Packaging time per package | <input type="text"/> |
| Inner packaging   | <input type="text"/> | Packaging process          | <input type="text"/> |
| Sources of supply | <input type="text"/> |                            |                      |

## 4. Customer requests

- |                                                         |                                                             |                                               |
|---------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Reduction in packaging variety | <input type="checkbox"/> Reduction in transport damage      | <input type="checkbox"/> Reusable packaging   |
| <input type="checkbox"/> Faster packaging               | <input type="checkbox"/> Reduction in packaging costs       | <input type="checkbox"/> Keep outer packaging |
| <input type="checkbox"/> Visual appearance              | <input type="checkbox"/> Environmentally friendly packaging |                                               |
| <input type="checkbox"/> Reusability                    | <input type="checkbox"/> Reduction in suppliers             |                                               |

Do you want a drop test?

☐ no ☐ yes which

Which interests you more?

☐ Individual Solution ☐ Using standard sizes wherever possible

Priority

5. Explanatory text

☐ 1 week ☐ 2 weeks ☐ 4 weeks Desired deadline

## 5. Explanatory text

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



# Doc Emba

## The explaining engineer

**Doc Emba guides you through  
the exciting world of packaging  
of Emba-Protec.**

**[www.doc.emba-protec.com](http://www.doc.emba-protec.com)**



### **We are here for you:**

Emba-Protec GmbH & Co. KG  
Alter Postweg 68  
D-32549 Bad Oeynhausen  
Phone: +49 57 31 - 30 888 - 0  
Fax: +49 57 31 - 30 888 - 30

Monday to Thursday 8:00 a.m. to 5:00 p.m.  
Friday 8:00 a.m. to 2:30 p.m.

### **Our digital channels:**

For general messages:  
For suggestions and requests for improvements:  
For your orders:  
For general information about Emba-Protec:

**[info@emba-protec.de](mailto:info@emba-protec.de)**  
**[kvp@emba-protec.de](mailto:kvp@emba-protec.de)**  
**[order@emba-protec.de](mailto:order@emba-protec.de)**  
**[www.emba-protec.de](http://www.emba-protec.de)**