



kern*Pack*

PackOnTime *2box*

Multi Format

Packaging System

Tailor-made packages – quick and easy



Your technology partner | **kern**

PackOnTime 2box

Multi Format Packaging System

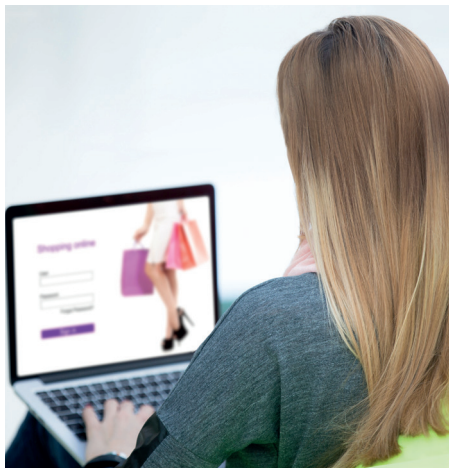
For an efficient shipping of the most diverse items, the logistic chain must be optimized and automated. This requires clever packaging concepts and systems, which provide packaging at the required time and size. Our goal is: Smart Pack – Made On Time.

Online trade is booming. An increasing number of people and companies are conveniently ordering items over the internet, with straightforward delivery of the ordered items to their locations. The number of packages to be packed and transported daily to recipients by logistics service providers faces a yearly double-digit growth.

Customer's purchasing behavior and expectations are changing because of the increasing number of online platforms. More and more crucial for the buying decisions are price, availability and delivery time. Customers order when they have a need.

Shorter delivery times, right up to same-day-delivery, the reduction of delivery costs and minimum order quantities are also reducing the average number of items per order. With the reduction of the number of items per order, more and more air is transported in the used standardized boxes.

The oversized boxes lead to challenges in the entire logistic chain from storage, sorting, transport to distribution. This causes increased costs because of storage space requirements and high need of transportation capacity.



For B2B shipments of accessories, spare parts, consumables, overnight deliveries are becoming more and more important. Required items need to be ready for dispatch, ex stock just in time.

Optimise your logistics

Here is where the PackOnTime® concept helps you to optimize your production and shipping processes and to increase productivity; all while ensuring environmentally friendly usage of resources.

Smart Pack – Made On Time

- Package created on demand; created when required.
- Cardboard box produced in individually required dimensions.
- Cardboard sheet formed in an inherently stable box providing optimal protection.
- Items fed and packed automatically.
- Significant simplification of logistics and warehousing.



Facts at a glance

PackOnTime 2box

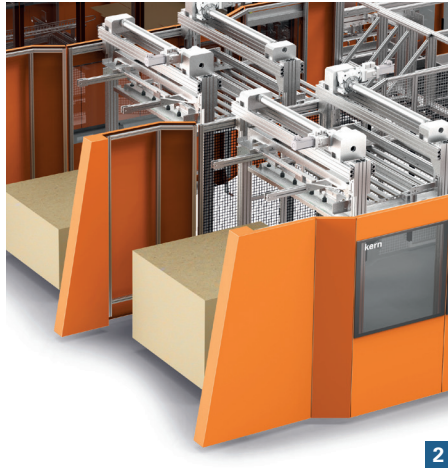
- Operation:
1 person
- Package size (inner dimensions):
min. 100 × 150 × 50 mm
max. 600 × 400 × 300 mm
- Package weight:
up to 20 kg
- Corrugated cardboard sheets:
Recommended B-wave 3 mm
fed from pallet:
stack height 1.5 m (approx.
450 sheets)
- Closure:
hot glue
- System dimensions
(basic configuration):
10 × 16 × 2 m

1 Item placement and measurement

The items are placed on a belt and fed to the system. The dimensions of the placed items are measured to determine the required box size. Depending on the requirements, the system can be equipped with multiple inserting stations.

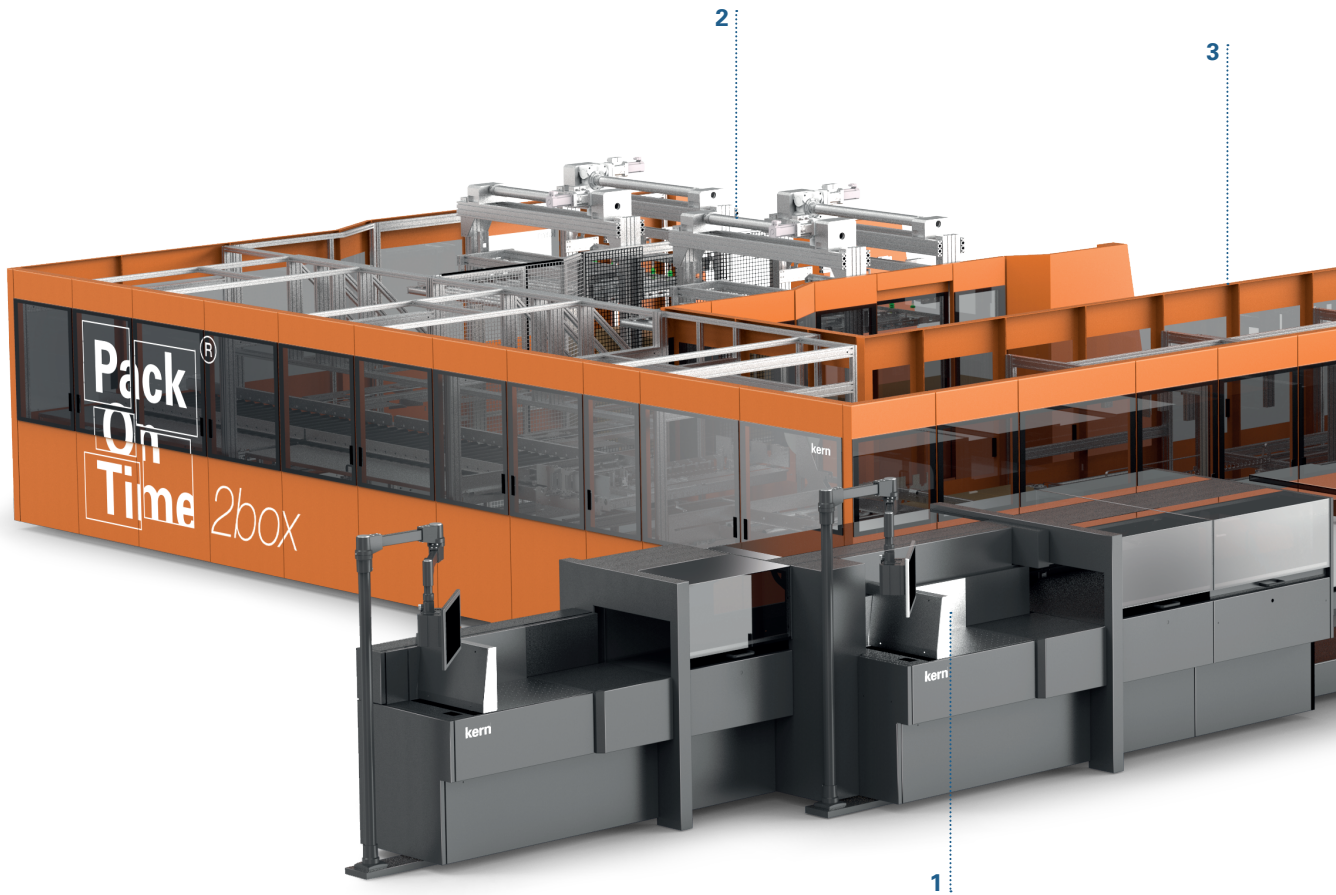
2 Corrugated cardboard sheet feeder

The box is made from corrugated cardboard sheets. Depending on the determined dimensions, the system selects the appropriate cardboard size. The system can be equipped with up to three corrugated cardboard sheet feeders according to the requirements.



3 Corrugated cardboard processing

The corrugated cardboard is tailor cut in a first step then perforated and creased. The box is partially erected, glued, and transported to the items infeed station.



4 Items insertion

The system conveys the items into the tailor-made box. Before closing a delivery note or invoice can be inserted into the box.



5 Closing and labelling

The box is now automatically closed and sealed. Before leaving the system, the package will be provided with the corresponding shipping label.



4

5



The clever multi-item-packaging

The patented shape of the corrugated cardboard box enables secure transport of content, space-saving storage, and simple handling during sorting and stacking.

The booming online market generates a higher demand for paper and corrugated cardboard packaging. Corrugated cardboard is popular because it requires, when folded, little space, and despite its relatively low weight, provides good stability and protection of the packaged goods. Corrugated cardboard is also environmentally meaningful because it is mainly manufactured from recycled paper.

Up to now, large quantities of identical boxes had to be produced to keep the cost of corrugated cardboard boxes low. Each change of the box size generates setup costs for box production, and time-consuming adjustments on the packaging machines. The consequence is a high ratio of air which must be transported, stored, and transhipped. Very often this empty space is filled with auxiliary materials such as polystyrene chips or wood wool, causing additional handling by the recipient.

PackOnTime *2box* produces boxes from corrugated cardboard sheets at the optimal size for each type of order. The goods are well protected against damage on the dispatch route, without additional filling material. To produce the appropriate box size, the items to be packed are measured dynamically, then automatically packed and the box sealed. The result is a significant reduction of package volume. A valuable contribution to environmental protection.

Thanks to an integrated tear-off-strip the package can be opened frustration free, without any tools. The stable shape of the box allows return shipment as well as the use for storage.

When opening the package, you get an impression of high quality and the content is nicely presented. The boxes can be branded as desired by using pre-printed cardboard sheets, or by adding a digital printer. The use of corrugated cardboard sheets allows fast and simple changeover between various cardboard boxes.

Brief overview

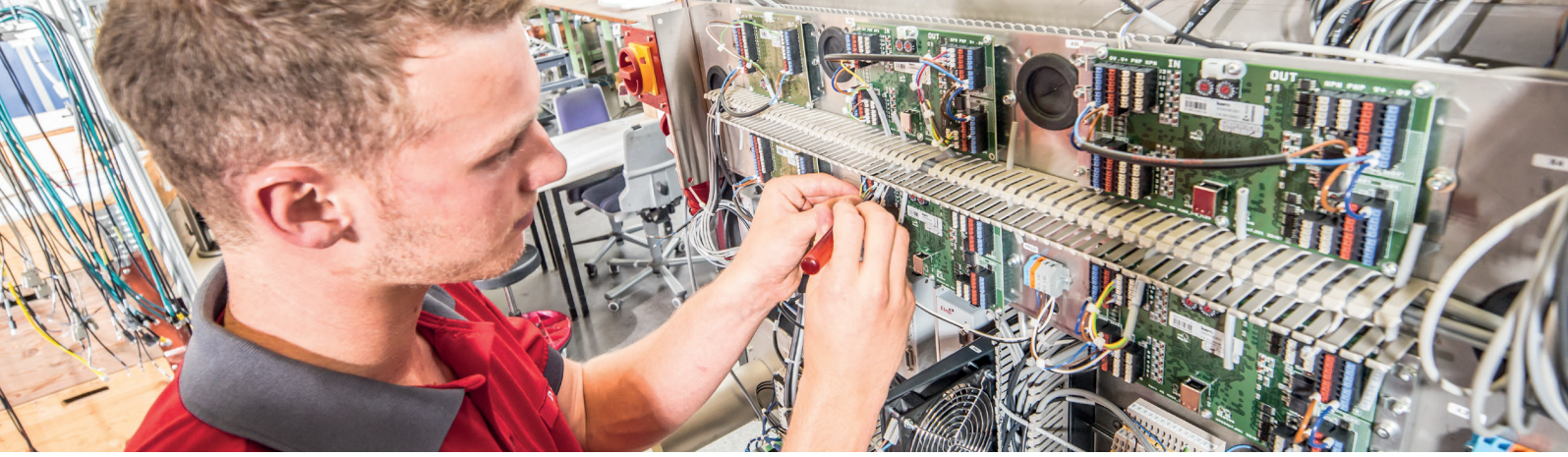
PackOnTime *2box*

The tailor-made box fulfils the most important criteria for secure shipment of the ordered items:

- The dimensionally stable box provides optimal content protection during transport.
- The patented shape encloses the content, with no need for additional filling material.
- Box made from environmentally friendly material (cardboard).
- Stress-free opening of package, without tools.
- Box can easily be reused for returns.
- Box design leads to an attractive presentation of content after opening.



Sample of a box with content



Kern Service

Trust is the foundation of good cooperation

The decision to purchase a Kern product is a choice for a continuous, trusting relationship. Reliable service is one of the key pillars of our company. For optimum system availability and productivity, the Kern Group offers a comprehensive and reliable service portfolio.

- Personal consultancy on-site
- Requirement analysis, and solution proposal according to customer needs
- Installation of the Kern systems
- System integration
- On-site training of your employees
- Reliable support and maintenance during operation
- Customer-oriented service and maintenance models after purchase.



Headquarter

Kern AG
3510 Konolfingen
Switzerland

Phone +41 31 790 35 35
info.packontime@kernworld.com
www.packontime.com

Kern worldwide

Innovative systems for document processing and logistics

Kern AG is a Swiss manufacturer and worldwide supplier of products, solutions and services in the field of inserting and packaging systems as well as parcel terminals. The software and platforms that are tailored to the product and customer complete the Kern system landscape.

For more than seven decades, Kern has stood for great innovation, quality, flexibility and reliability. Factors that mean one thing above all: the highest level of security and service.

The basis for this is flexible production planning and process control on the one hand, and a long-standing and qualified team of experts in development on the other.

The Group operates in around 50 countries worldwide and employs about 750 people. Kern Service is available worldwide with 450 service technicians, on 365 days a year.

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