



AUTOMATED PACKAGING

# SYSTEMS

**PANOTEC®**



# WHY CHOOSE PANOTEC

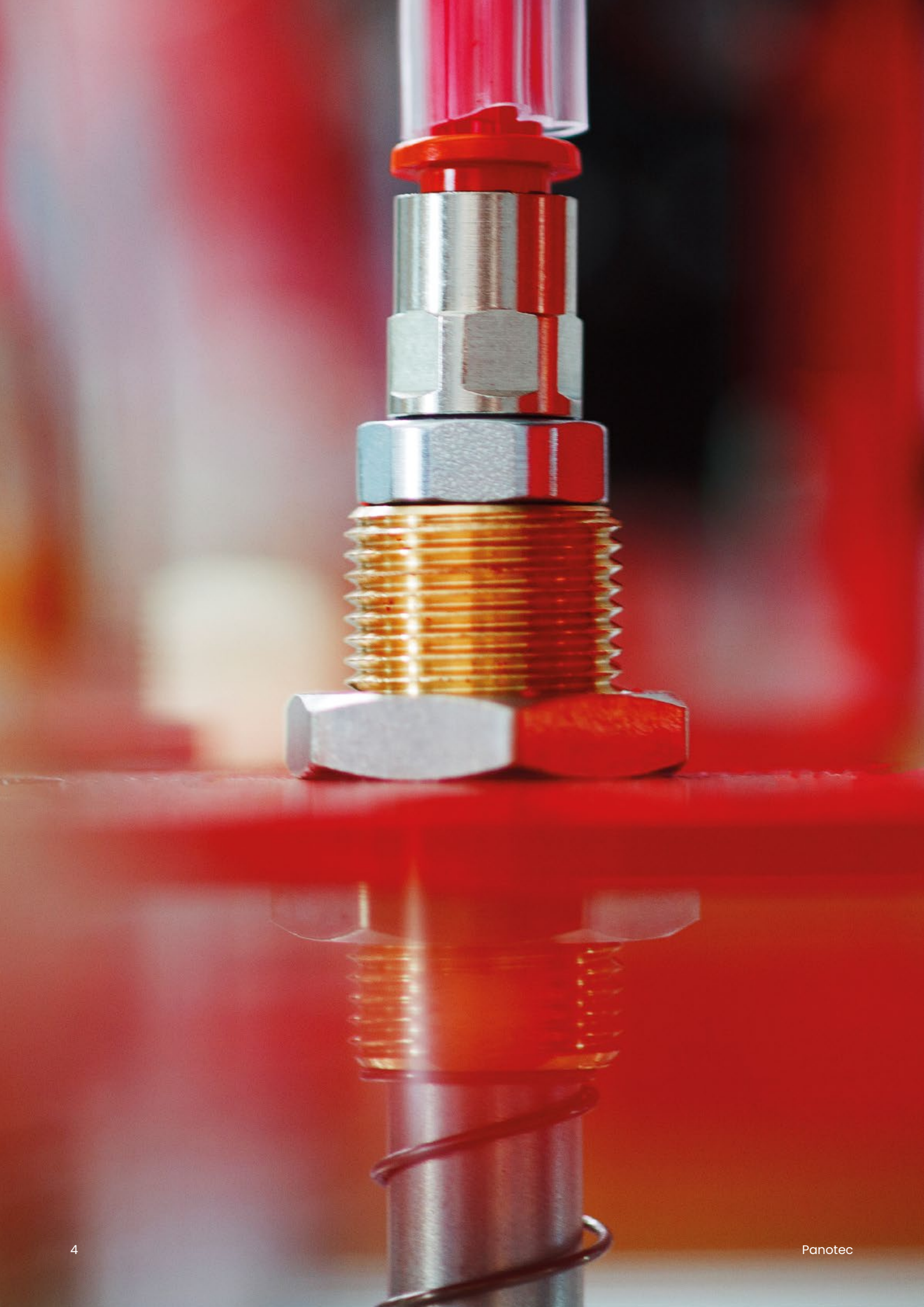
EXPERIENCE, RELIABILITY, CUSTOMIZATION  
are the key features of the new product range  
designed specifically to meet all customer needs for  
fully automated systems.

From custom box production to the very last stage  
of the packaging process Panotec designs high-end  
automation systems.

Panotec's know-how and expertise makes Made in  
Italy stand out in the international arena.







# ADVANTAGES



Optimisation of human resources and production costs



Steady workflow



Higher production rates and production speed



Flexible packaging and better customer experience



More efficient production processes as packaging is no longer produced by hand



Focus on sustainability and full customisation of the system

# AUTOMATION SYSTEMS

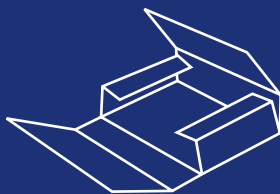
## According to the type of box

Panotec Automation Systems can produce and process a wide range of boxes. All systems are fitted with suitable units to form and close the boxes, depending on the required box design.

**Fefco 0410\*  
and similar  
designs**



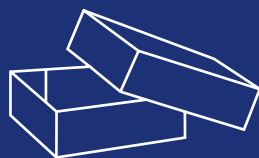
**Fefco 0401\*  
and similar  
designs**



**Fefco 0201\*  
and similar  
designs**



**Bottom and  
lid**



## According to the field of application

All systems by Panotec are extremely flexible and can be implemented in a wide range of industries, from furniture and logistics to shower boxes and automotive.

**Disassembled  
furniture**



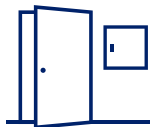
**Assembled  
furniture**



**Panels**



**Cabinet doors,  
doors and  
windows**



**Shower boxes**



**Profiles**



**E-Commerce  
and logistics**



**Automotive**



**Radiators**



**Upholstery and  
mattresses**





## SYSTEM FOR FEFCO 0410\* AND SIMILAR DESIGNS

The system was specifically designed to handle boxes F410\* or similar designs (e.g. 427\*, 411\*, etc.), with longitudinal as well as front and back flaps to be closed on the outside of the box.

The system features two specific units, providing for the perfect forming and closing of the boxes:

- **FORMING STATION  
ADAPTAFORM**
- **CLOSING STATION  
ADAPTABOX**

Due to the high level of customization of the different units, it is possible to reach **production rates of up to 10 boxes/min.**

**10**  
BOXES/MIN

The ideal solution to pack items that are low in height but extremely flexible in length and width.

## FIELDS OF APPLICATION



**Disassembled  
furniture**



**Shower boxes  
and radiators**



**Panels**



**Cabinet doors,  
doors and  
windows**

## PROCESSABLE BOXES



**Fefco 0410\***



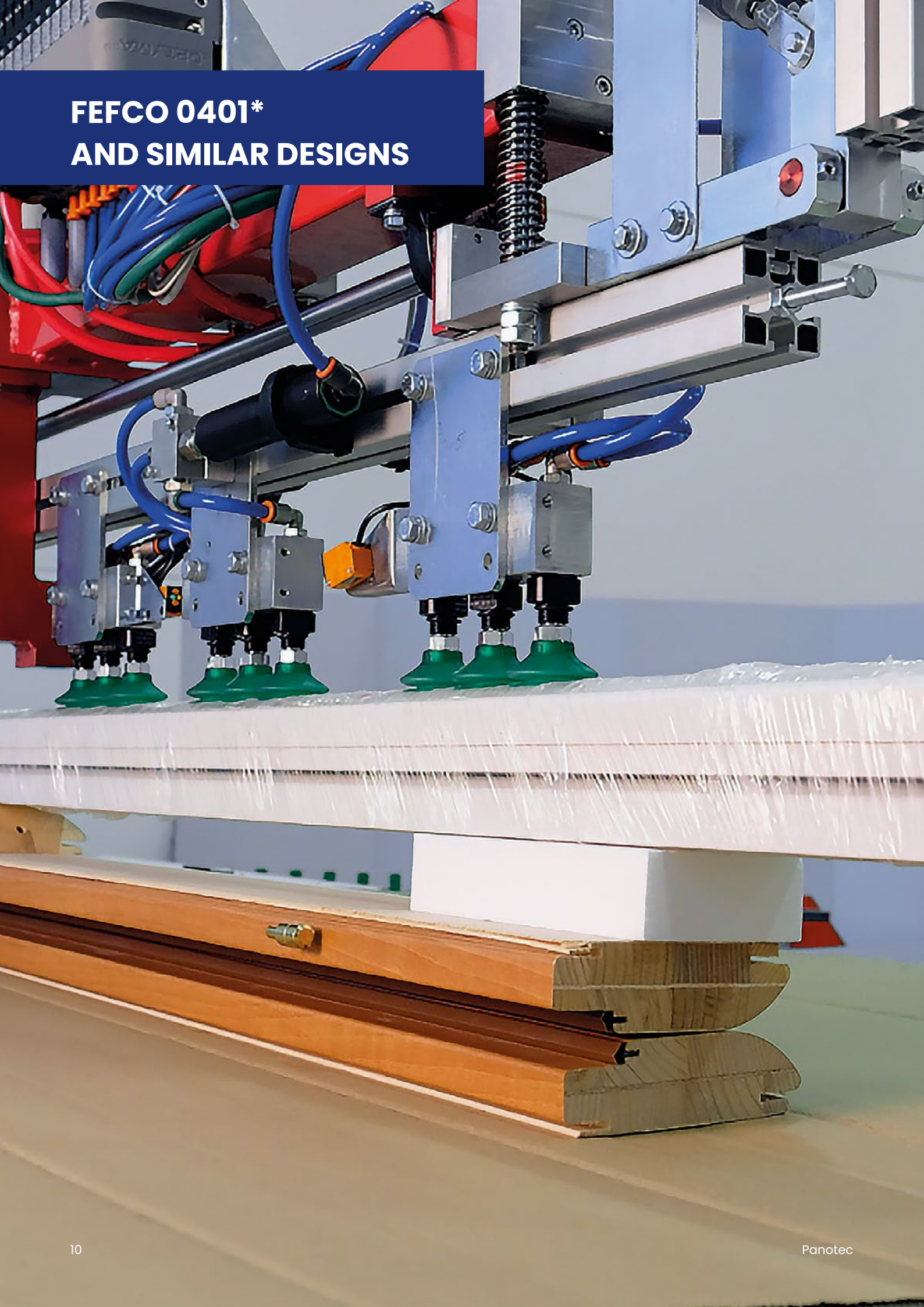
**Fefco 0427\***



**Fefco 0442\***



## FEFCO 0401\* AND SIMILAR DESIGNS



The system was specifically designed to handle boxes F401\* or similar designs (e.g. 0402\*, 0403\*, etc.) featuring a central top closure and side flaps at the head and tail, which are closed outwards.

The system can be equipped with two specific units, providing for the perfect forming and closing of the boxes:

- **ADAPTAFORM**
- **ADAPTABOX**

The ideal solution to pack long and narrow items.

## FIELDS OF APPLICATION



Profiles



Cabinet doors,  
doors and  
windows

## PROCESSABLE BOXES



Fefco 0401\*



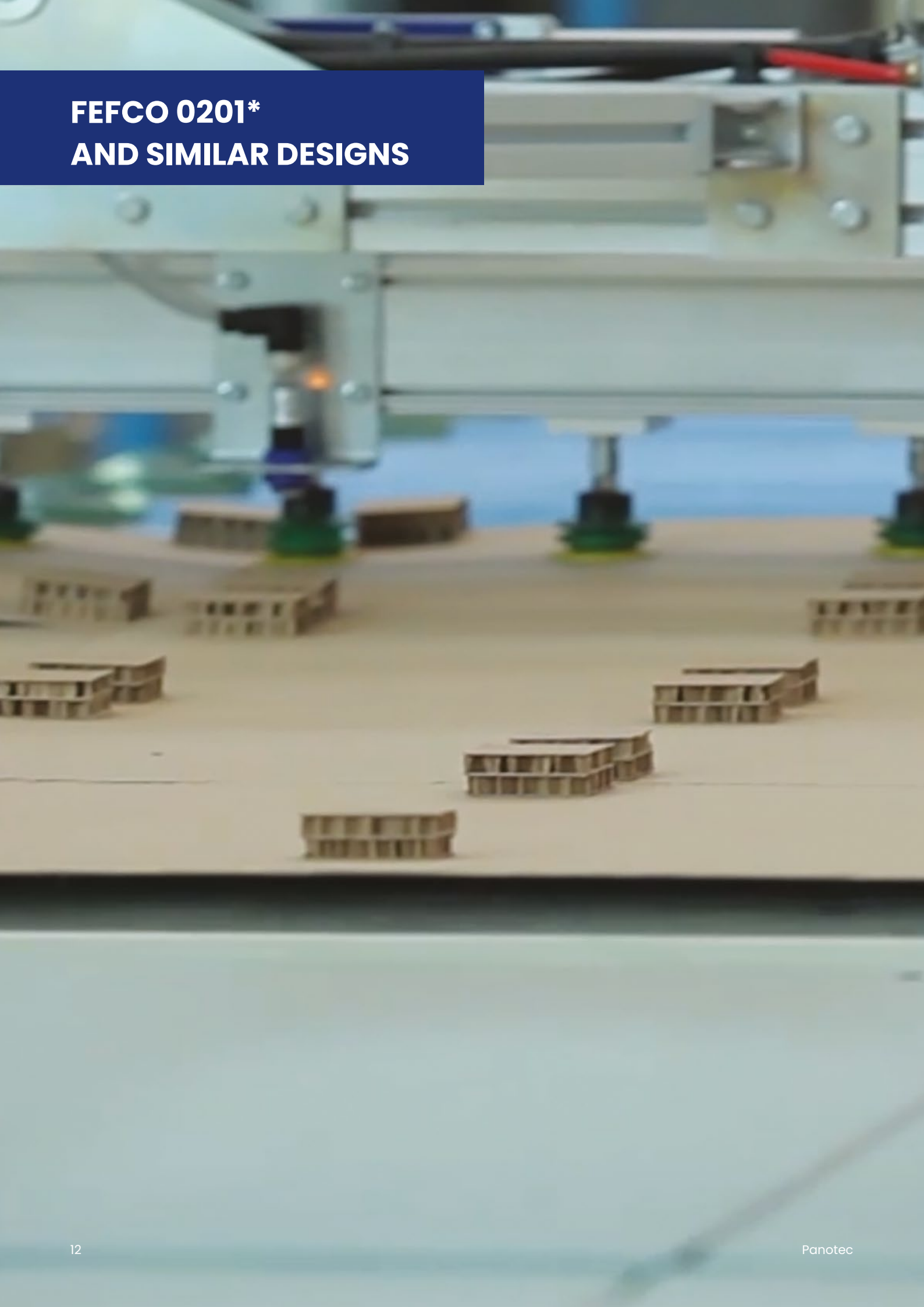
Fefco 0402\*



Special designs



# FEFCO 0201\* AND SIMILAR DESIGNS



Designed to handle Fefco 0201\* or similar designs (e.g. Fefco 0203\* etc.) The boxes are closed with Hot Melt glue.

This high level automation allows for the entire packaging process to be automated from customised box production to closing, while reducing the number of operators to a minimum.

The ideal system to pack assembled furniture or to ship goods in the e-commerce and logistics industry.

## FIELDS OF APPLICATION



Assembled furniture



Disassembled furniture



Automotive



E-Commerce and logistics

## PROCESSABLE BOXES



Fefco 0201\*



Fefco 0203\*

## SYSTEMS FOR BOTTOM-LID DESIGNS



This system was specifically designed to handle bottom and lid designs.

The bottom and lid are used as protective side caps.

It is the most customisable solution.

The design of the box and the system are both implemented according to the customer's specific requirements. It is the most customisable solution.

The design of the box and the system are both implemented according to the customer's specific requirements.

## FIELDS OF APPLICATION



**Assembled  
furniture**



**Disassembled  
furniture**



**Panels**



**Cabinet doors,  
doors and  
windows**



**Automotive**



**Upholstery  
and  
mattresses**

## PROCESSABLE BOXES



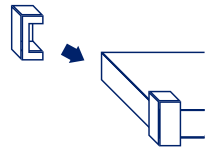
**Fefco 0300\***



**Special Designs**

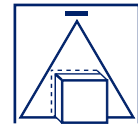


# WORK STATIONS IN AUTOMATED SYSTEMS



## PREP STATION

Area in which the loose items are prepared by an operator. In this area also transport protections may be applied if required.



## DIMENSIONAL MEASUREMENT OF ITEMS

The items are measured automatically or by hand at this station and the data is then submitted to the packaging machine to launch the production of the right sized box.



## BOX PROCUREMENT

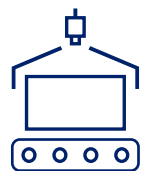
The Panotec packaging machine produces the right-sized boxes.

If the production process requires large batches, the boxes can be supplied by a box manufacturer and stored on pallets/racks next to coupling station run by an operator.



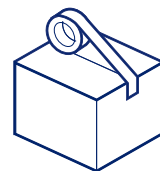
## BOX FORMING

Area in which the bottom of the boxes is formed automatically, mainly for box designs F410\*, Fefco 401\* or bottom and lid designs. An operator must be assigned to form the box manually, if this section is not automated.



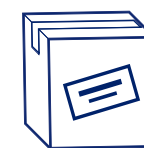
## COUPLING STATION (BOX-ITEM)

At this station the operator manually places the item in the box, which has been previously formed by the AdaptaForm forming station.



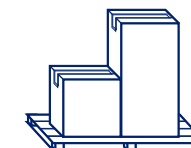
## BOX CLOSING

Station in which the packing containing the item is closed. It is possible to fit either the AdaptaBox automatic closing unit that uses Hot Melt glue or the AdaptaForm automatic unit using adhesive tape.



## LABELING

Station that automatically applies the label to the box. Labels can be applied in several ways: side, lid, 90° etc. The label can also be applied by an operator.



## PALLETIZING

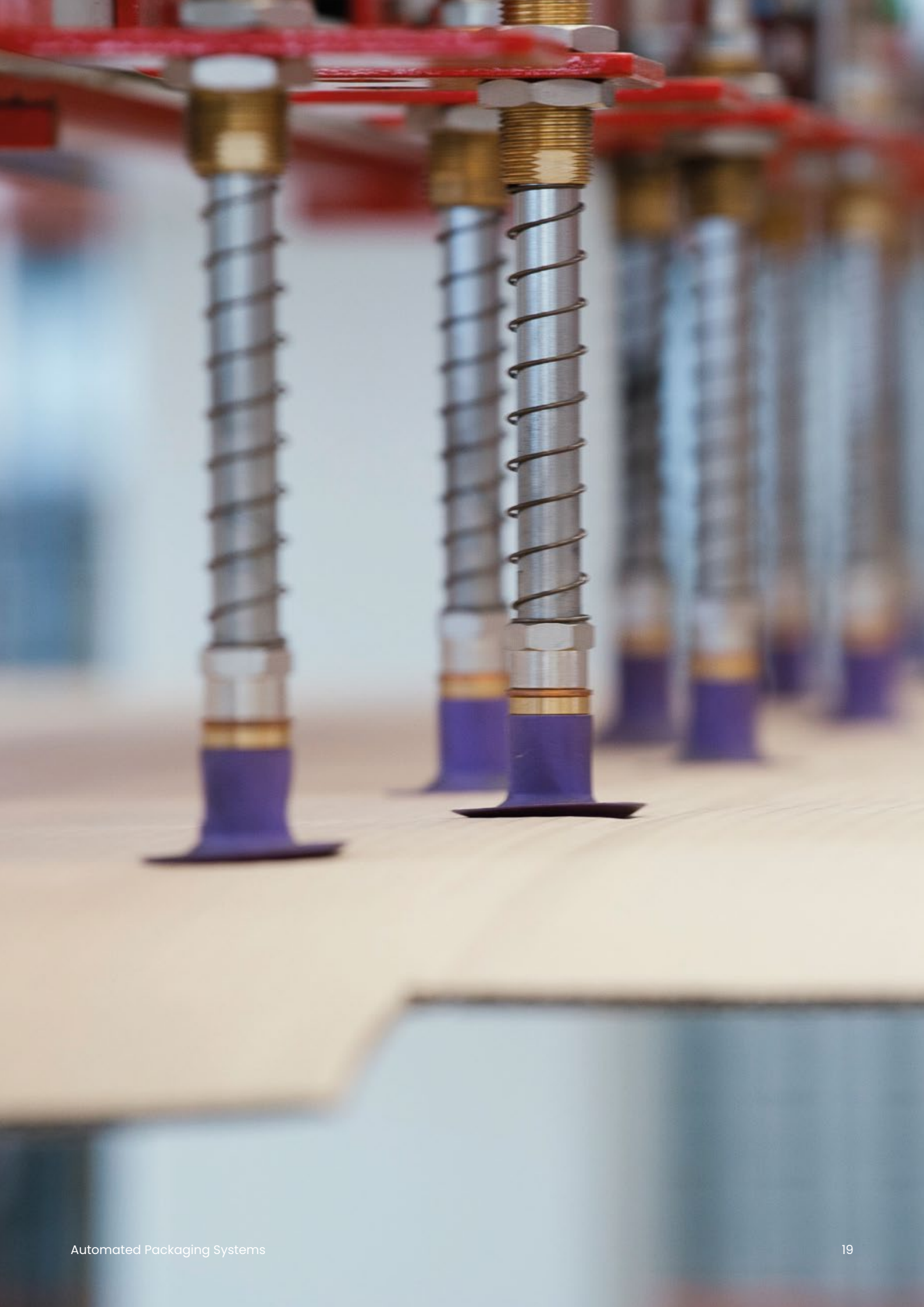
A high level of automation can be achieved by implementing robots and it is possible to manage several unloading bays for the boxes.



# TECHNICAL FEATURES

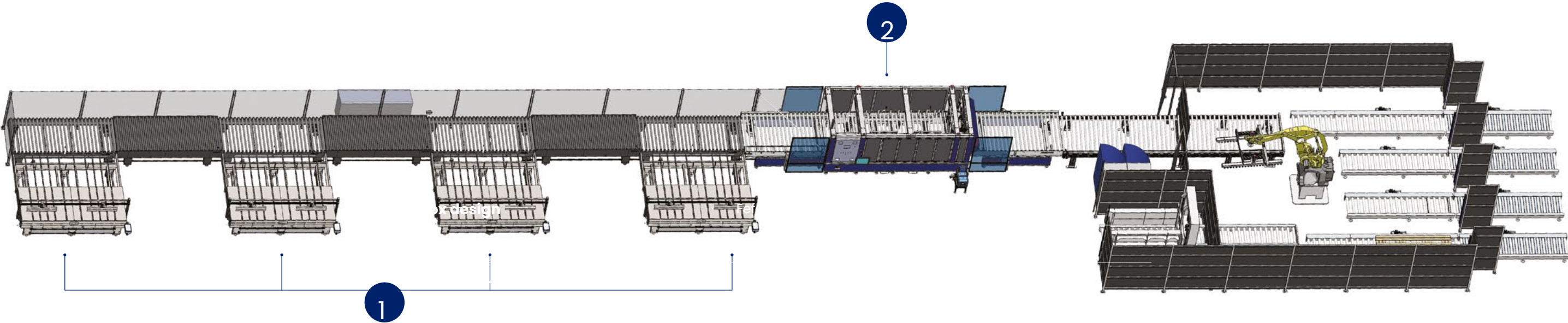
Box design	Fefco 0401*, Fefco 0410*, Fefco 0427*, Fefco 0442*, Special Designs
Production	batches/ small batches / batch 1
Cardboard thickness & type	1,2 to 6mm** single flute (E,B,C) - 3 ply (EB)
Output rate	2 to 15 boxes / min
Item sizes	L min 300 / max 3000 W min 200 / max 1300 H min 20 / max 300
No. of operators required	1 to 6

\*\*Type of cardboard to be selected on a per case basis, depending on the units included in the system





# EXAMPLE BASIC SYSTEM



## WORK STATIONS

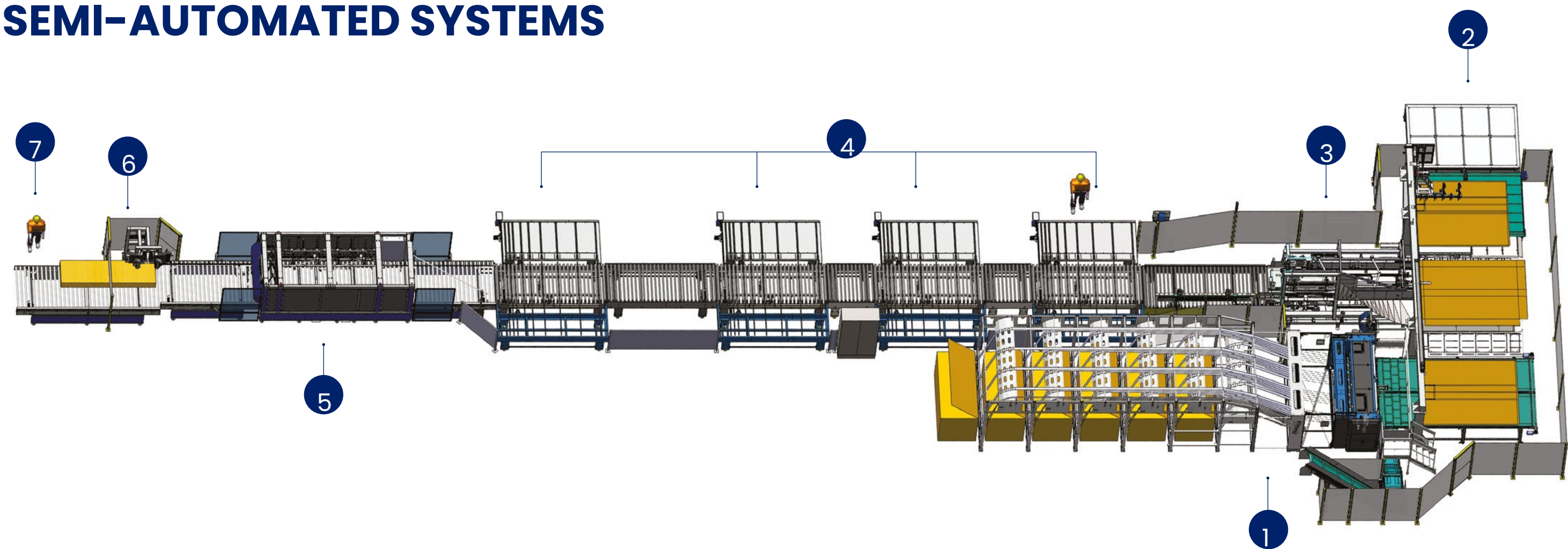
- 1 4 Item Prep Stations
- 2 Box Closing System AdaptaBox

## TECHNICAL FEATURES

Box design	Fefco 0410*
Production management	batch 1
Cardboard thickness	2 to 5 mm
Output rate	5 boxes / min.
Item sizes	L min 400 / max 1200 - W min 400 / max 3000 - H min 30 / max 150
No. of operators required	4



# EXAMPLES OF SEMI-AUTOMATED SYSTEMS



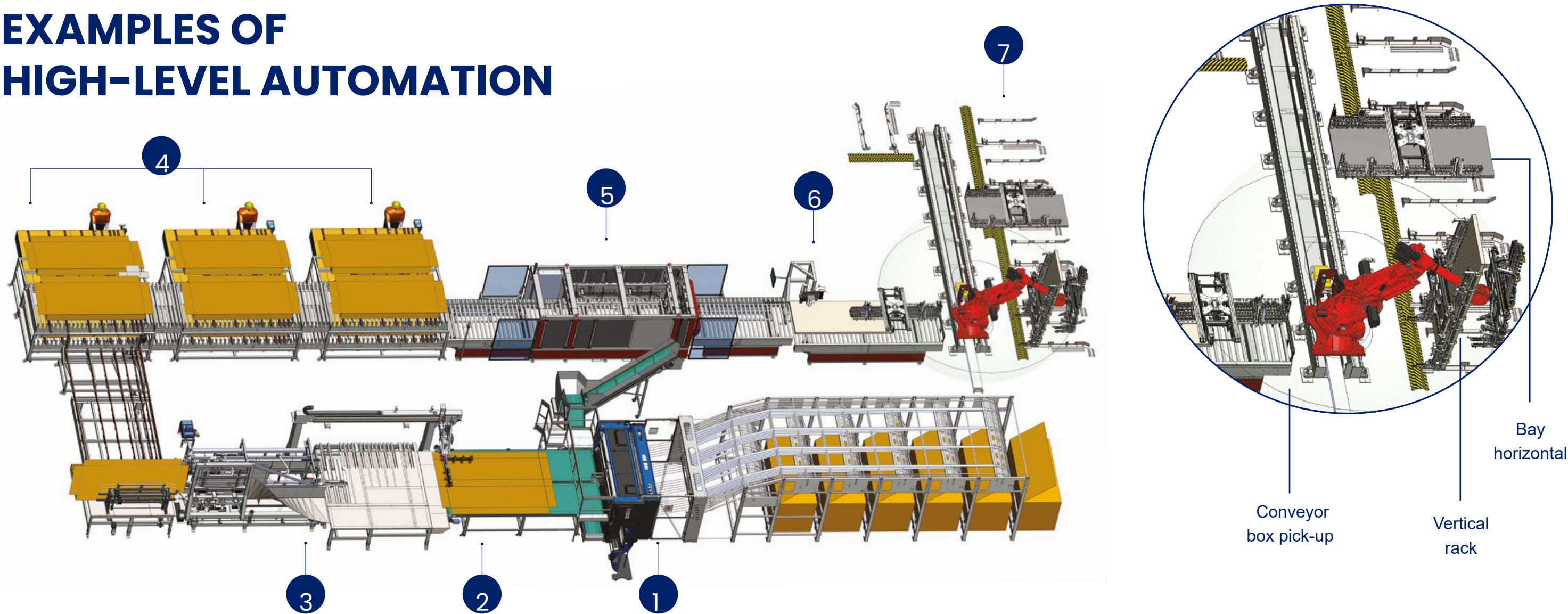
## WORK STATIONS

- 1 Boxes procurement with Panotec Packaging Machine
- 2 Box Handling Station
- 3 AdaptaForm Box Forming Station
- 4 3+1 Box Prep Stations (with operator)
- 5 Box Closing System AdaptaBox
- 6 Labelling Unit ("L"-shape)
- 7 Palletising by hand

## TECHNICAL FEATURES

Box design	Fefco 0410*
Production management	flexibility (batch 1)
Cardboard thickness	2 to 5 mm
Output rate	3 boxes / min.
Item sizes	L min 220 / max 1200 - W min 400 / max 3000 - H min 30 / max 250
No. of operators required	4

# EXAMPLES OF HIGH-LEVEL AUTOMATION



## WORK STATIONS

- 1 Boxes procurement with Panotec packaging machine
- 2 Box Handling Station
- 3 AdaptaForm Box Forming Station
- 4 3 Box Prep Stations + Buffer with 3 operators
- 5 Box Closing System AdaptaBox
- 6 Labelling Unit
- 7 Automatic Palletising Unit with robot on vertical racks and horizontal bays

## TECHNICAL FEATURES

Box design	Fefco 0410*
Production management	flexibility (batch 1)
Cardboard thickness	2-3 mm
Output rate	3 boxes / min.
Item sizes	L min 220 / max 1200 - W min 400 / max 3000 - H min 30 / max 150
No. of operators required	3



# THE CHOICE OF MAJOR GLOBAL BRANDS

## Furniture



PIANCA



## Automotive



## Panels



## E-Commerce and logistics



## Profiles



## Shower Boxes and Radiators



## Cabinet Doors and Doors



# PANOTEC: SYSTEMS AND MORE

## A COMPLETE RANGE FOR PACKAGING MANAGEMENT

Panotec:  
two divisions, one partner at your service.

Panotec goes to market with two tailor-made packaging divisions designed to meet all the needs of its customers in terms of production and flexibility.

## PANOTEC®

Since 1986 Panotec has been a leader in designing and building stand-alone machines for custom box production.

The core business of Panotec ranges from packaging machines to automatic lines in order to develop maximum efficiency for production processes.

### AUTOMATIC PACKAGING LINE

**OPERA**  
The packaging  
revolution

- RECOMMENDED FOR:**
- well-structured and large enterprises
  - fields of application: e-commerce, logistics, spareparts
  - up to 13 boxes per minute
  - production of batch size 1



### PACKAGING MACHINES

**NEXTPRO**  
The Technological Evolution of Custom Packaging



- RECOMMENDED FOR:**
- well-structured and large enterprises
  - high output requirements
  - more than 10 boxes per minute
  - extremely flexible production (batch size 1)

**EVO**  
The next Generation of Innovation



- RECOMMENDED FOR:**
- medium to big enterprises
  - medium to high output requirements
  - more than 4 boxes per minute
  - production in small batches or batch size 1

**NEW MIDI**  
Small Footprint and High Performance



- RECOMMENDED FOR:**
- small to medium-sized businesses
  - medium output requirements
  - more than 4 boxes per minute
  - production in small batches or batch size 1

**NEW COMPACK**  
Tecnologie di qualità per il packaging on demand



- RECOMMENDED FOR:**
- small to medium-sized businesses
  - low to medium productivity requirements
  - more than 2 boxes per minute
  - production in small batches or batch size 1







# PANOTEC®

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*Subject to management and coordination by International Boxes Srl*

\*Code Fefco universally adopted to  
simplify the presentation of the boxes.

06/24

