



# MEDICAL LINES

Automation & Packaging

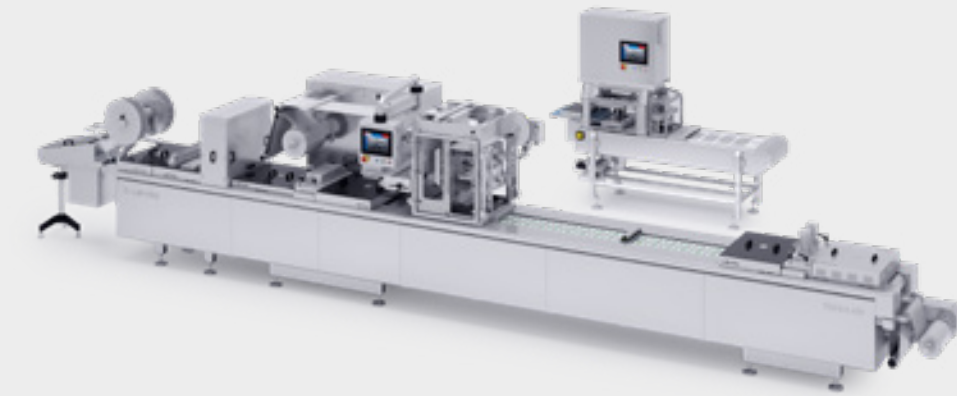




SYRINGES  
450



SUTURES



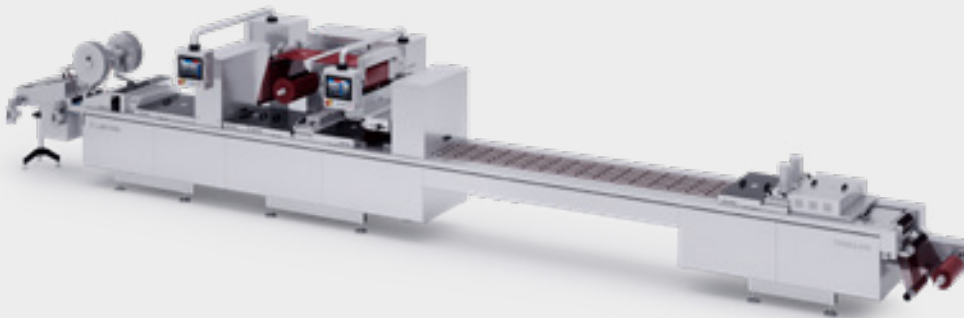
BAGS



BLISTER



SYRINGES  
650



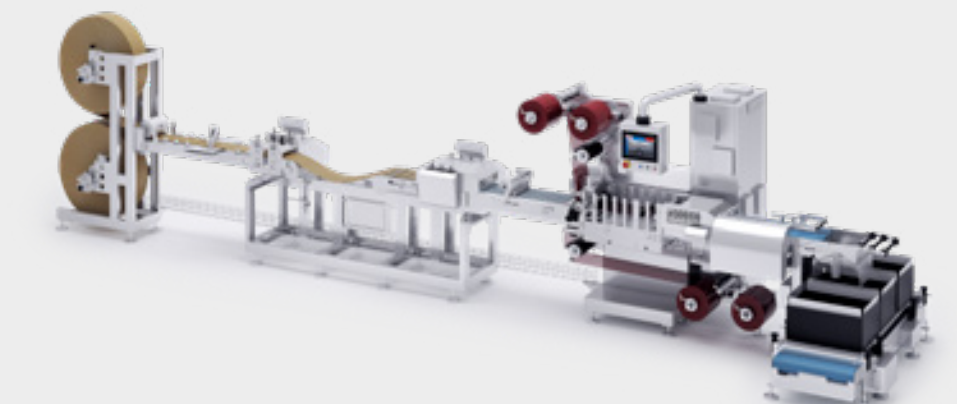
SURGICAL  
KITS



VIALS



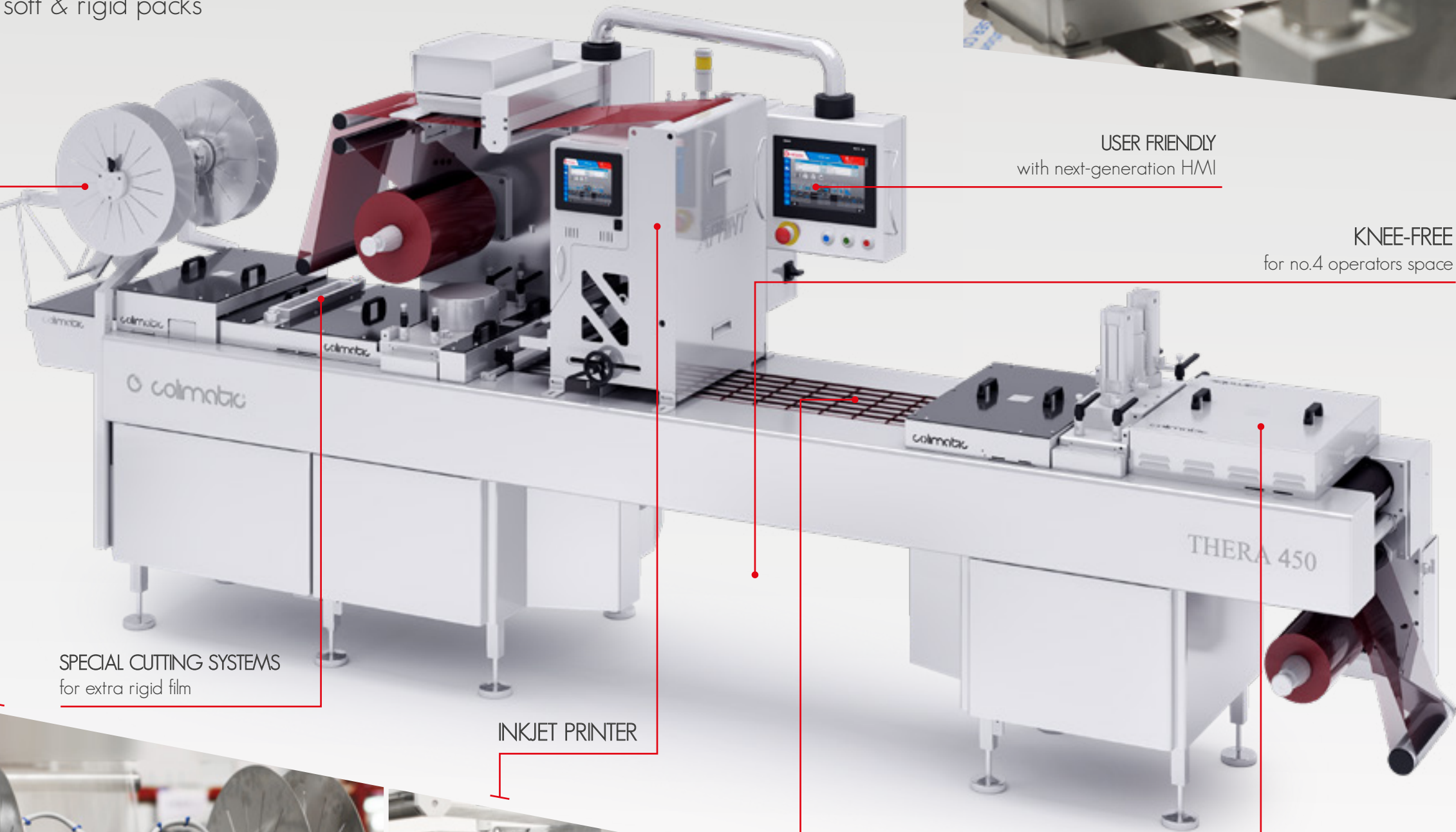
TABS





# AUTOMATIC LINE FOR THE PACKAGING OF SYRINGES

soft & rigid packs



USER FRIENDLY  
with next-generation HMI

KNEE-FREE  
for no.4 operators space

SPECIAL CUTTING SYSTEMS  
for extra rigid film

INKJET PRINTER



SPECIAL TECHNOLOGY FOR  
RIGID FILM UP TO 800 MICRONS

DOUBLE PRE-HEATING  
for extra rigid film

## THERMOFORMING LINE MOD. THERA 450

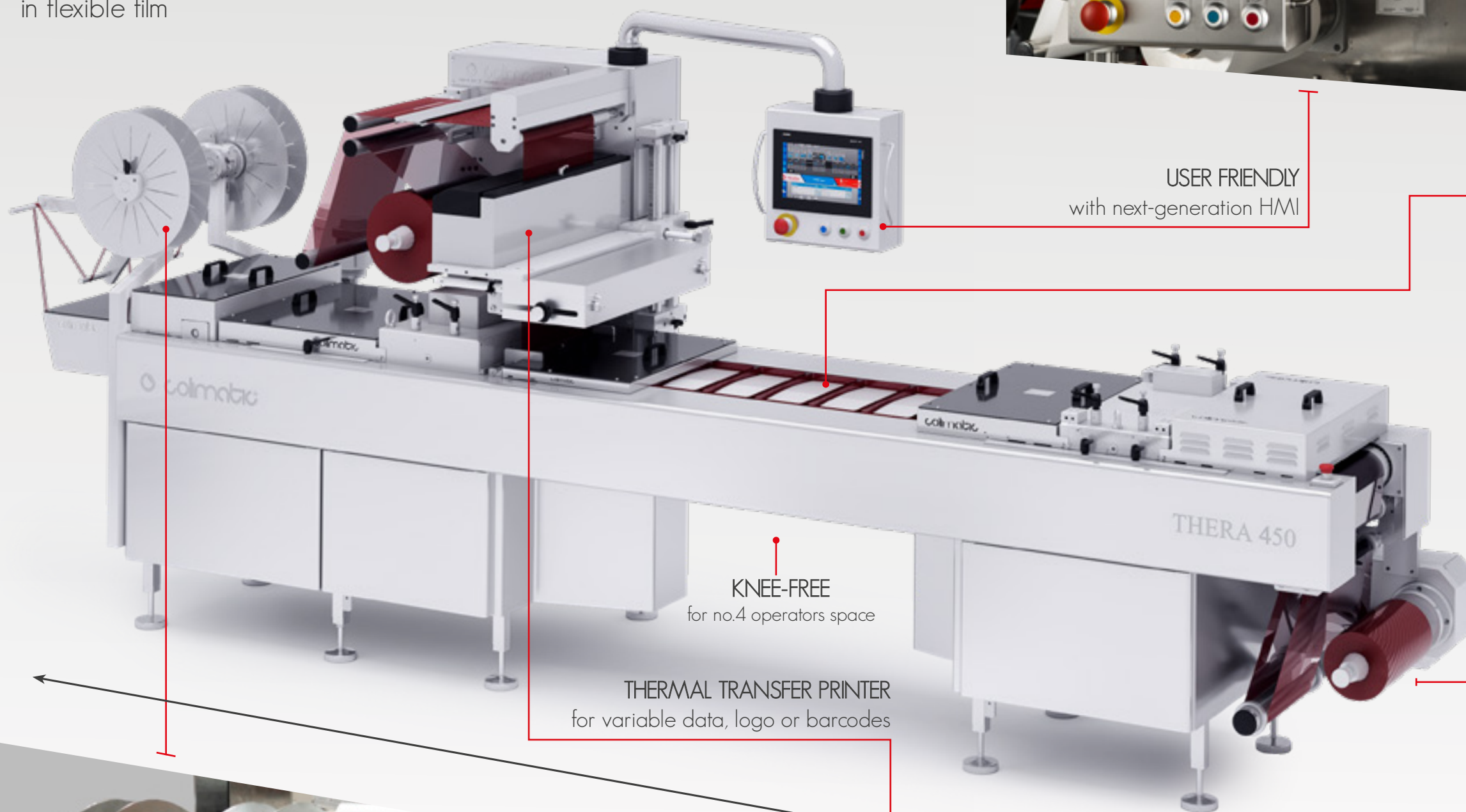
- The highest quality standard for the best value for money



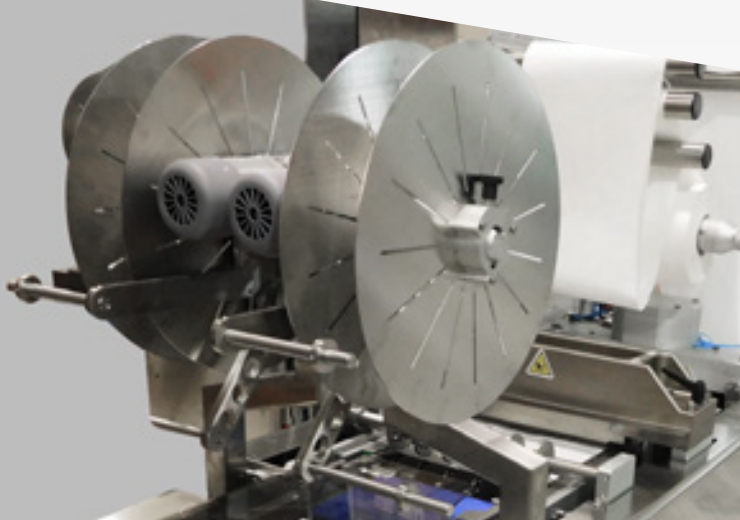


# AUTOMATIC LINE FOR THE PACKAGING OF BAGS

in flexible film



**COMPACT FOOTPRINT**  
conforming to any cleanrooms specifications



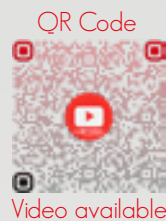
## THERMOFORMING LINE MOD. THERA 450

- A combination of reliability, simplicity and high performance, enclosed in a solid and compact structure.



# AUTOMATIC LINE FOR THE PACKAGING OF SYRINGES

with vision system



CFR21  
compliant software to  
ensure data traceability



OCV-OCR  
printing vision systems

PRODUCT VISION SYSTEM  
for features recognition

TOP&BOTTOM  
splice film detection



VISION SYSTEM

- optical control system for the products
- print presence and quality control

BAD PRODUCTS  
rejection system

THERMAL TRANSFER  
printing device



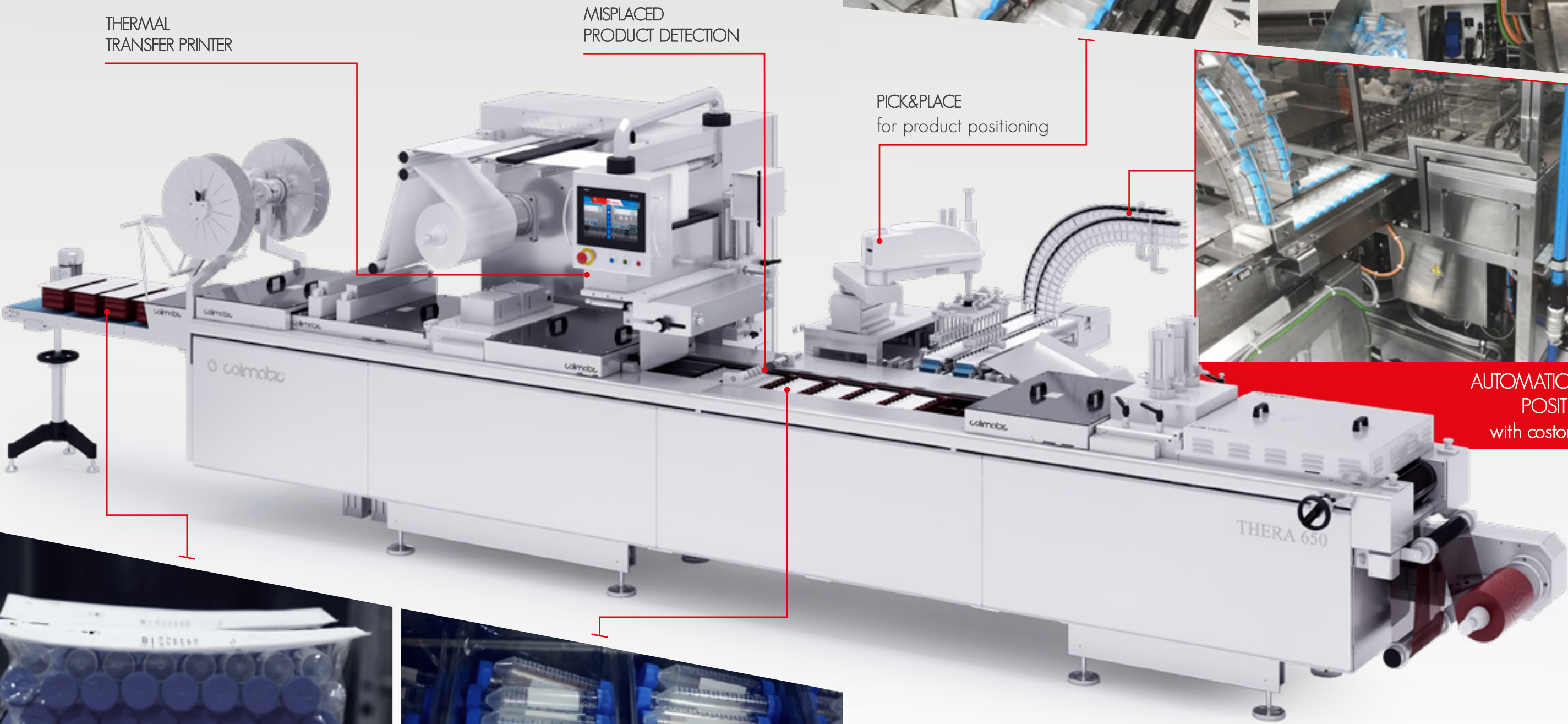
THERMOFORMING LINE MOD. THERA 650

- Highest efficiency guaranteed by the most advanced quality detection controls



AUTOMATIC LINE FOR THE PACKAGING OF  
**VIALS**

with automatic loading system



AUTOMATIC LOADING AND POSITIONING DEVICE with customized orientation



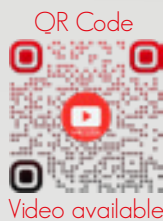
THERMOFORMING LINE MOD. THERA 650

Great cost saving on labour costs (only 1 line supervisor required)



REVOLUTIONARY TERMINAL LINE FOR  
**SUTURES**

patent n. 2020160000S549S



THERMAL TRANSFER  
PRINTER Solution

OCV-OCR  
vision systems

PRODUCT PRESENCE  
DETECTION SYSTEM

BLANKING MACHINE  
for post sterilization sealing&cutting



SPECIAL TYVEK STRIPE APPLICATION

TYVEK STRIPE APPLICATOR

PIN HOLE DETECTION



THERMOFORMING LINE MOD. THERA650

- Savings up to 35% on total costs. Thanks to our innovative tyvek stripe system

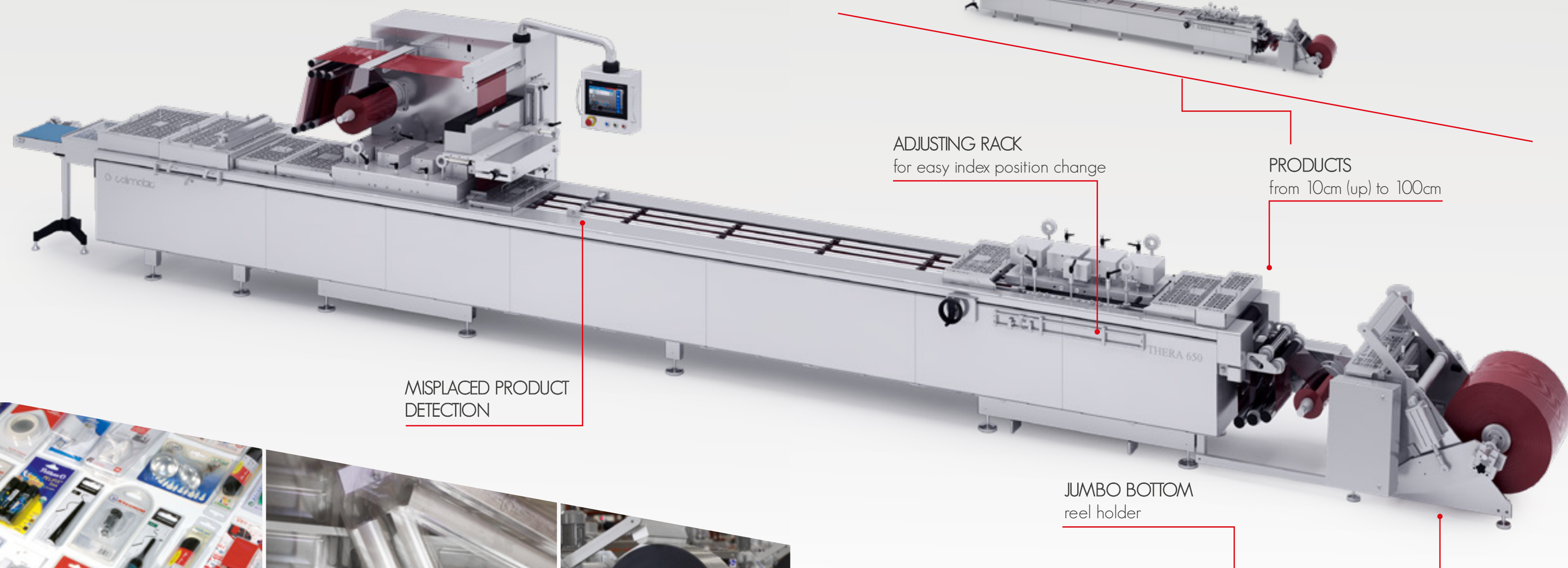
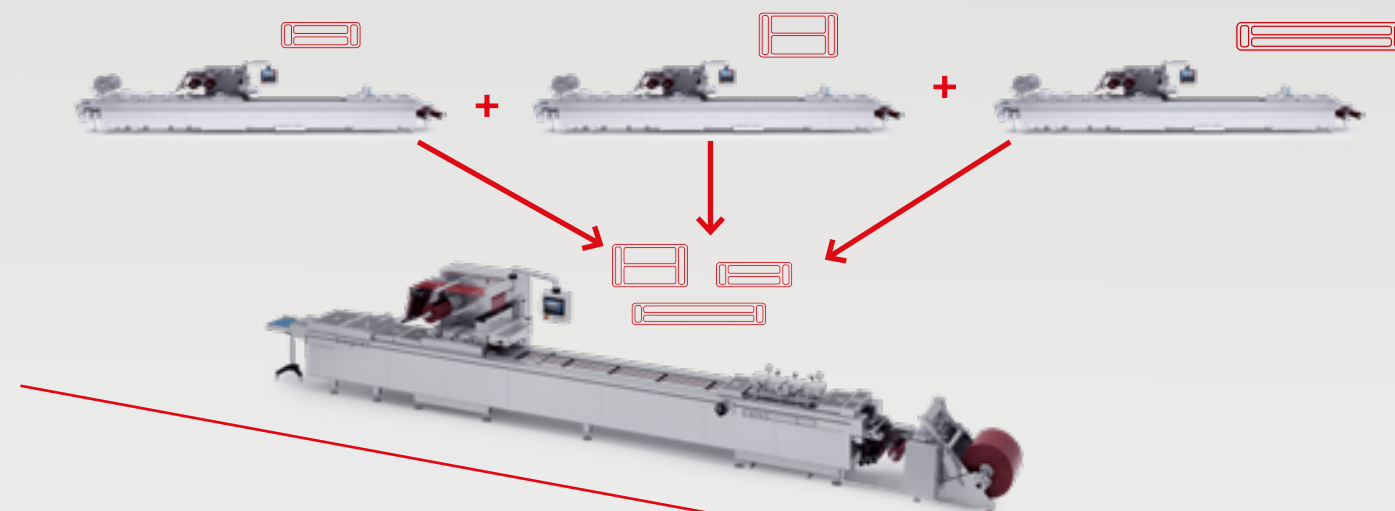


# ALL IN ONE TECHNOLOGY PACKAGING LINE BLISTER

index up to 1000 mm

**ALL IN ONE**  
TECHNOLOGY  
SMART CHANGE

combines the production of inconsistent  
dies dimensions in 1 line.



MISPLACED PRODUCT  
DETECTION

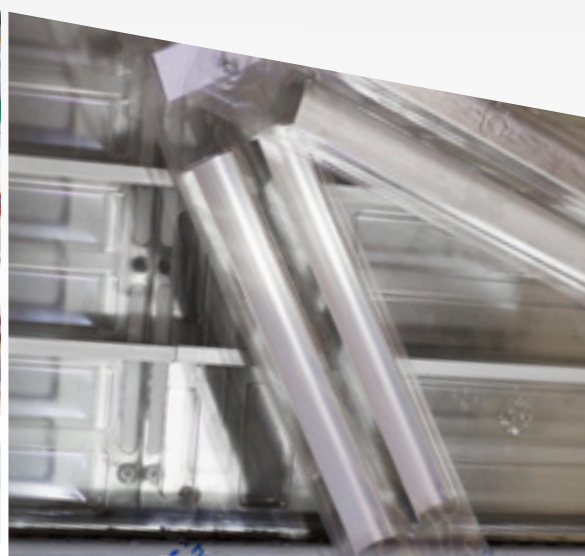
ADJUSTING RACK  
for easy index position change

PRODUCTS  
from 10cm (up) to 100cm

JUMBO BOTTOM  
reel holder

## THERMOFORMING LINE THERA 650

- Great cost saving on labour costs (only 1 line supervisor required)
- Perfect solution to deal a wide range of products
- Available with Automatic Robotic Loading system by Robot





# AUTOMATIC LINE FOR THE PACKAGING OF SURGICAL KITS

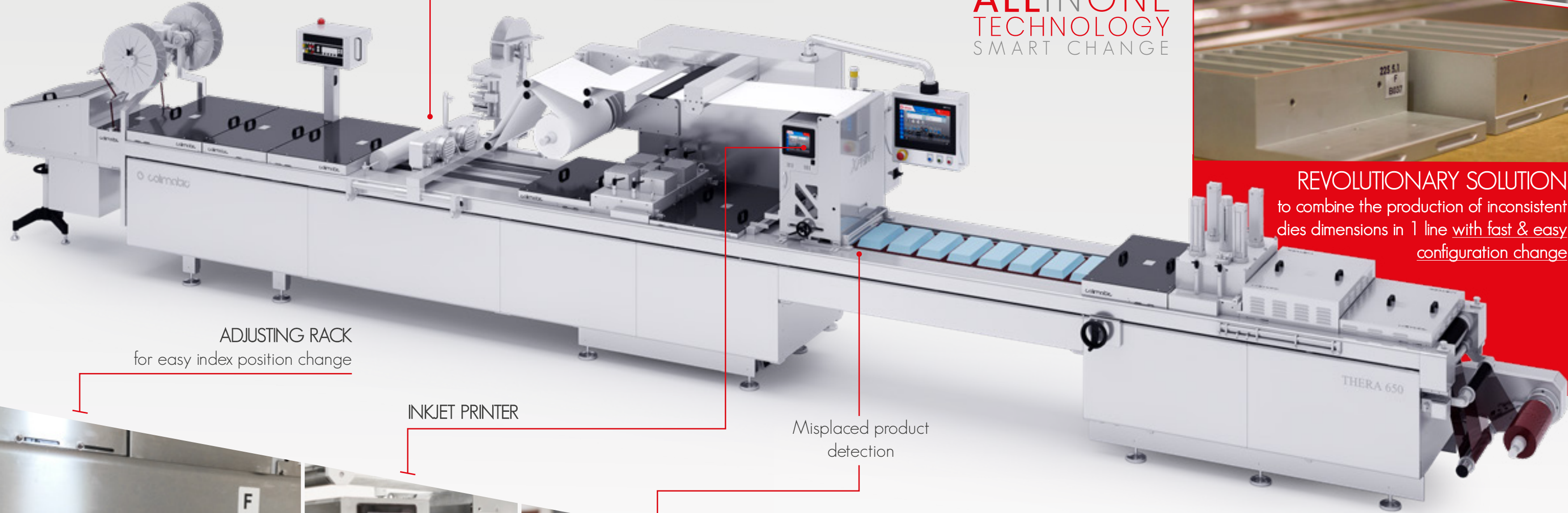


Automatic labelling device

ALL IN ONE  
TECHNOLOGY  
SMART CHANGE



REVOLUTIONARY SOLUTION  
to combine the production of inconsistent  
dies dimensions in 1 line with fast & easy  
configuration change



ADJUSTING RACK  
for easy index position change

INKJET PRINTER

Misplaced product  
detection

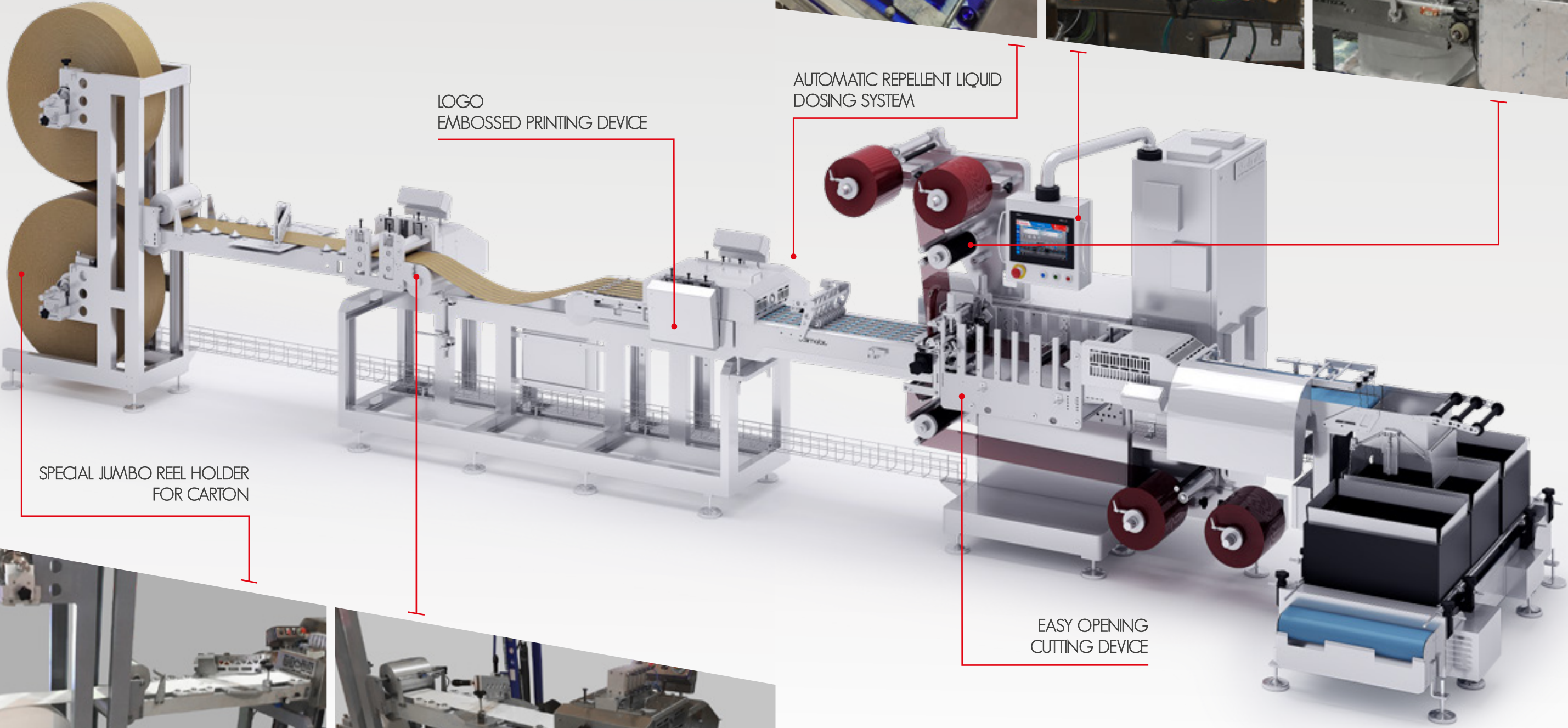


THERMOFORMING LINE MOD. THERA 650

- Highest flexibility and minimum downtime



AUTOMATIC LINE FOR PRODUCTION AND PACKAGING OF  
**TABS**  
mosquito mats



SPECIAL JUMBO REEL HOLDER  
FOR CARTON

LOGO  
EMBOSSD PRINTING DEVICE

AUTOMATIC REPELLENT LIQUID  
DOSING SYSTEM

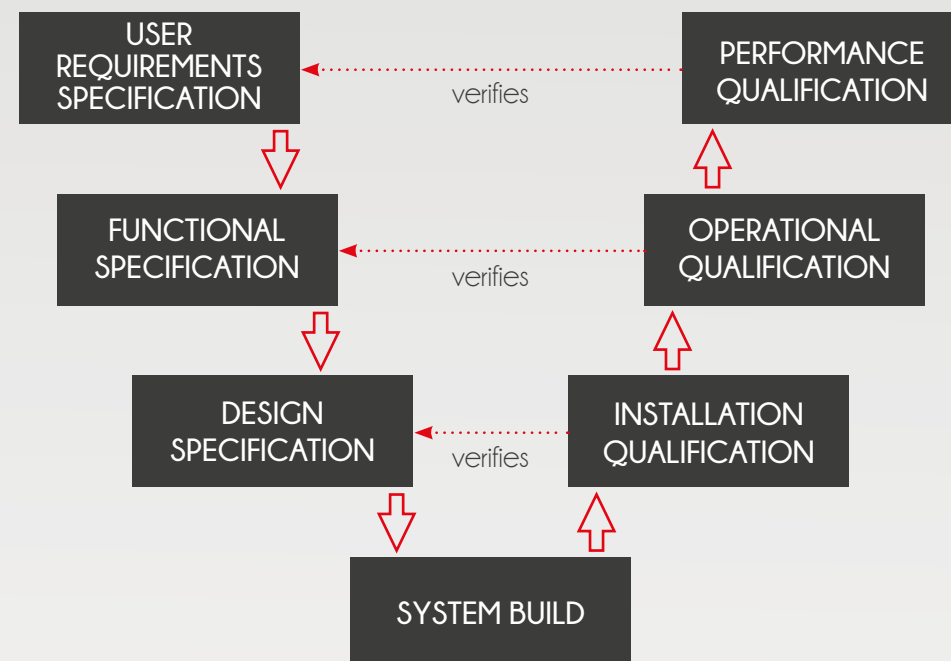
EASY OPENING  
CUTTING DEVICE

PRODUCTION AND PACKAGING LINE MOD. SIGMA

- Production up to 1800 Pieces/minute
- Taylor-made solution for a fully automatic process&packaging line



In compliance with the Good Automated Manufacturing Practice (**GAMP**). Coligroup can provide full **VALIDATION** documents & testing, aimed to help customers to achieve a proper validation of the lines. This qualification will further guarantee that all customer's requirements are fully satisfied.



# Gamp<sup>®</sup> 5

## VALIDATION PROCEDURE

### IQ (INSTALLATION QUALIFICATION)

Verification that all the required equipment is **INSTALLED** on the line according to customer's URS.

### OQ (OPERATIONAL QUALIFICATION)

verification that the line, including all the required equipment and components, **OPERATE** according to customer's URS.

Once the protocol execution ends an OQ Report is written. This report will present:

- Tests performed
- Tests results
- Deviation list
- Conclusive statement

IQ and OQ TEST will be performed during line **FAT (Factory Acceptance Test)** and, if required, at **SAT (Site Acceptance Test)**

As part of validation procedure, **calibration** certificates and following documents will be provided:

- DS (Design Specification)
- FDS (Functional Design Specification)
- HDS (Hardware Design Specification)
- SDS (Software Design Specification)

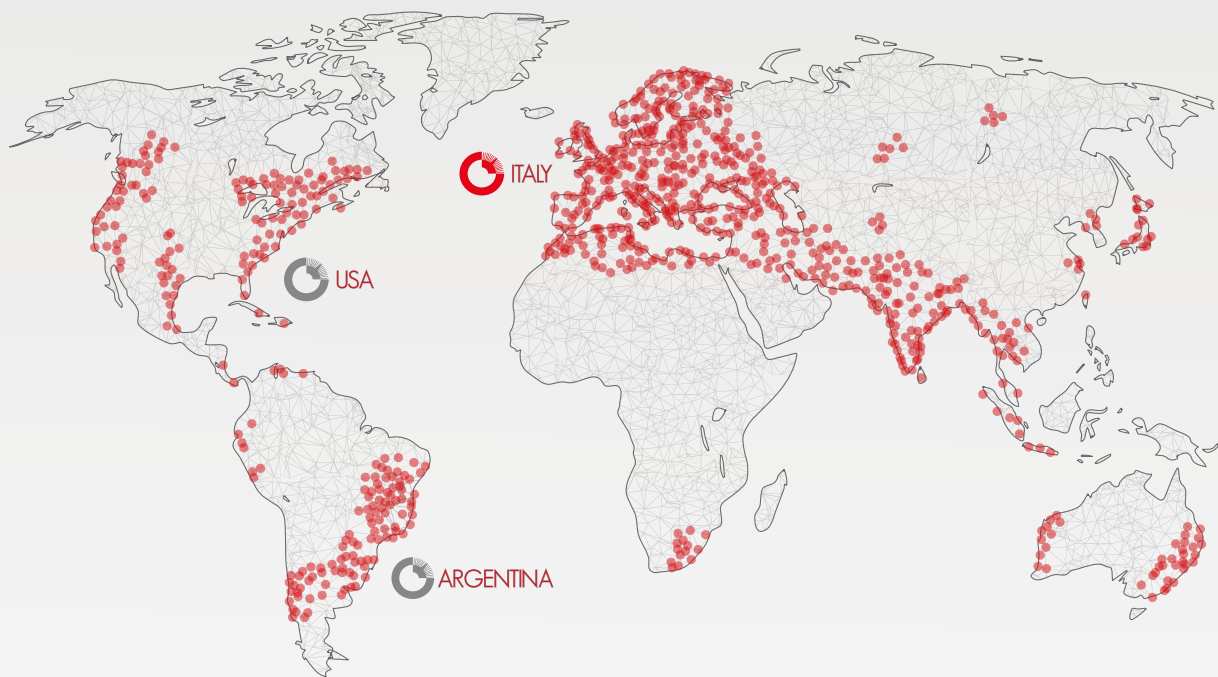




ITALIAN SOUL



GLOBAL ATTITUDE



SMALL  
ENOUGH TO LISTEN  
**BIG** ENOUGH  
TO SERVE!



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