



Ver. 6.5

# Flexible Packaging





# Company

Since 1982 we are the partner who offers innovative solutions to our customers to satisfy the specific market's requirements. Thanks to our know-how and continued investments, we provide laser systems that guarantee significant performances in terms of cost, operational efficiency and final quality product.

Thanks to the complete range of **laser systems developed by our R&D department, SEI Laser** is able to satisfy the application needs of customers in both vertical and horizontal markets, including: Plastic Converting, Lighting, Visual Communication, Textile, Interior Design, Automotive, Graphic Arts, Converting, Labelling, Flexible Packaging, Folding Carton, Furnishing, Metal processing and Electronics.

## VISION

*We work so that our innovative solutions help find new opportunities and new business for customers.*

*"Revolutionary Generation": this is SEI Laser.*





We produce our **laser systems in Italy** thanks to 5 departments (mechanical, electronic and optoelectronic, software, mechanical design and production) which follow all the stages of the production process. The software and firmware that control **SEI Laser** systems are developed by our Software R&D Department that satisfies the different customers' requests in real time.

A state-of-the-art technology requires commitment; our history is based on loyalty and mutual respect with customers. This alchemy enables us to establish strong connections with our customers which last for decades and constantly renewed.







# Flexible Packaging

**PackMaster** is the new range of laser systems designed by SEI for cutting, scoring, and perforation of flexible packaging material such as single layer (PE, PET, PP, nylon, PTFE), laminated films and paper.

Our laser systems offer multiple innovative solutions including easy-open, window packaging, micro/macro perforation for easy-ventilation, MAP and other applications.



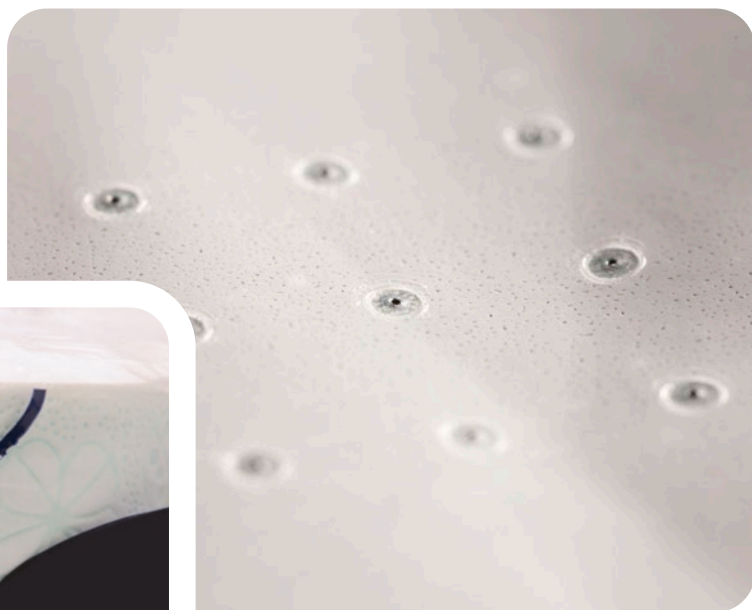


**Laser systems designed by SEI guarantee:**

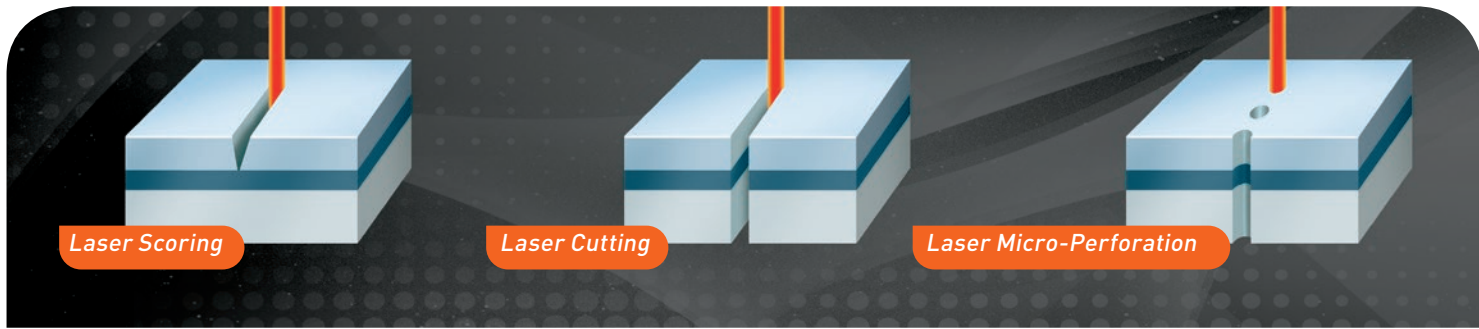
**Quality:** the main laser features are the absolute accuracy in the material removal depth, through cut, micro holes and the repeatability of the process. All these features fit perfectly with the application requirements of the flexible packaging material process.

**High Productivity:** high production speeds can be reached thanks to galvanometric scanning heads (Cross Web – CW) or with fixed focal heads (Web Direction – WD) of our own design and manufacture.

**Flexibility:** the full digital processing allows a direct work change with a consequent reduction of set-up times and related costs (which is not possible when using traditional mechanical solutions).







# PackMaster CW - GP

**PackMaster OEM CW-GP** is a Class 1 laser system with CO<sub>2</sub> Sealed Off technology which is specially designed for window-packaging, easy-ventilation and MAP which are the main demands of the flexible packaging market for Food&Beverage, Pet Food and Self-Care.

Designed to be easily integrated on existing production lines, it allows roll-to-roll processing for any process within the whole working area (600x600 and 900x900).

All PackMaster systems are equipped with ICARO Software, software developed by SEI for the flexible packaging industry with an intuitive interface which allows an easy import from any vectorial file, easy set-up of laser units, and easy management of the entire system.



**OFFICIAL  
VIDEO**



**PackMaster OEM CW-GP  
(Ground Position)**



# PackMaster CW - WP

**PackMaster OEM CW-Window Packaging** is a Class 1 laser system with CO<sub>2</sub> Sealed Off technology and it represents the innovative solution dedicated to the process of laminating materials such as paper/film.

Easily integrated on laminating machines, this system allows a roll-to-roll processing with different paper weights by performing extremely precise die-cuts. Thanks to ICARO Software, it will be possible to import any vectorial file by recreating any shape desired with absolute precision.

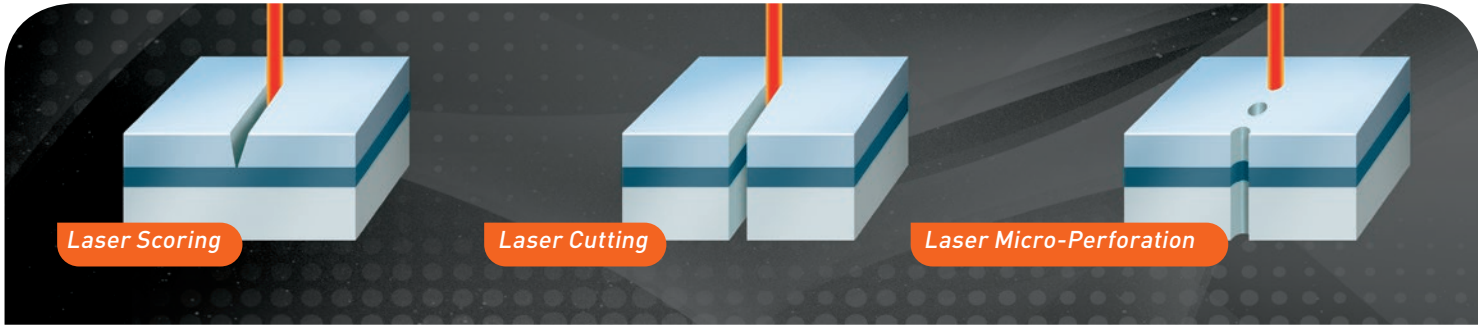
Every PackMaster OEM CW-WP laser solution is equipped with a waste and fume exhaust system, specially designed for this application.

The high integration and control system results in an easy handling by the operator.

**PackMaster OEM CW-WP  
(Window Packaging)**

OFFICIAL  
VIDEO





# PackMaster CW Conveyor



**PackMaster OEM CW Conveyor** is a Class 1 system with CO<sub>2</sub> Sealed Off technology and is a dedicated solution for reel-to-reel or reel-to-sheet processing of flexible materials, i.e. paper or plastic films, with vacuum conveyor. This system can be easily integrated on existing production lines and it allows the die-cuts to be collected either manually or mechanically.

Width and length of the PackMaster Conveyor are fully customizable, as well as the working area.



OFFICIAL  
VIDEO







# PackMaster WD

**PackMaster WD** is a laser system with fixed focal lens specifically designed for scoring, trough cutting and micro-perforation in web direction.

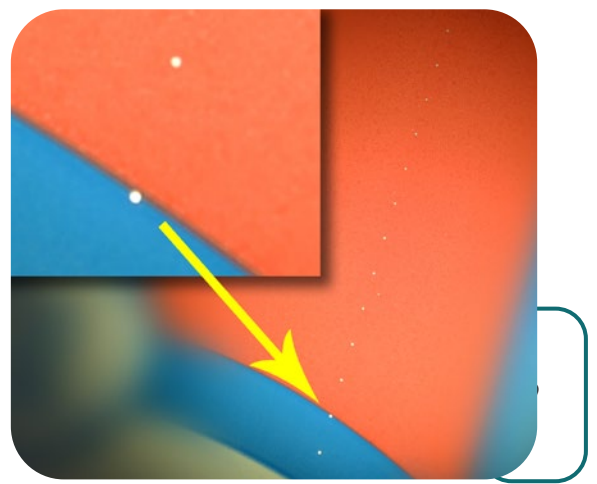
It is a compact system which can be integrated into any with every existing line and it is equipped with two laser units and motorized positioning.

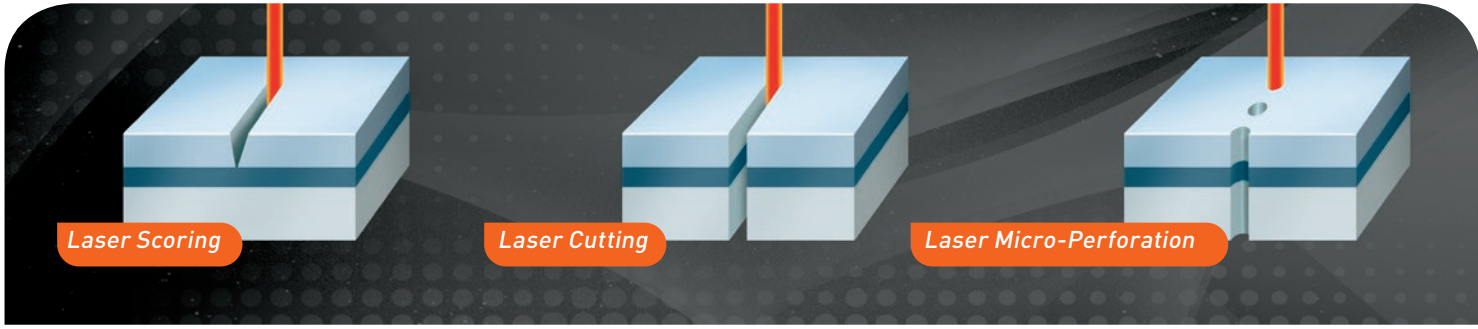


OFFICIAL VIDEO



PackMaster OEM WD



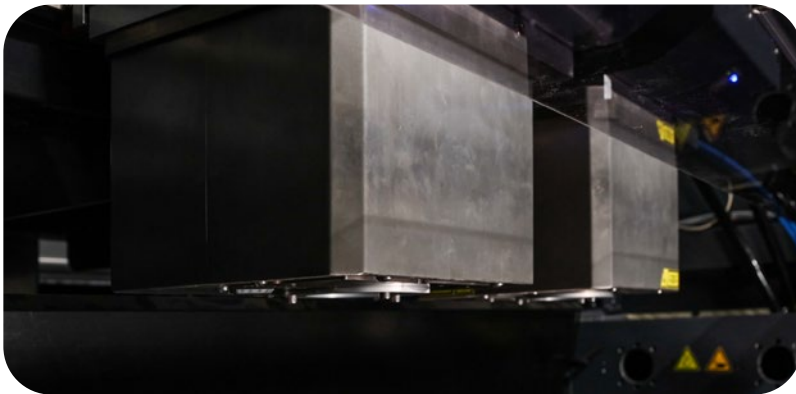


# PackMaker

**PackMaker** is the new system introduced in the PackMaster family and represents an opportunity for flexible packaging customers to have a versatile system able to perform both in cross web and web direction jobs.

This all-in-one system is an excellent technological innovation for flexible packaging products, especially for those interested in micro-perforation (hole run mode system), along with other standard applications on flexible packaging.

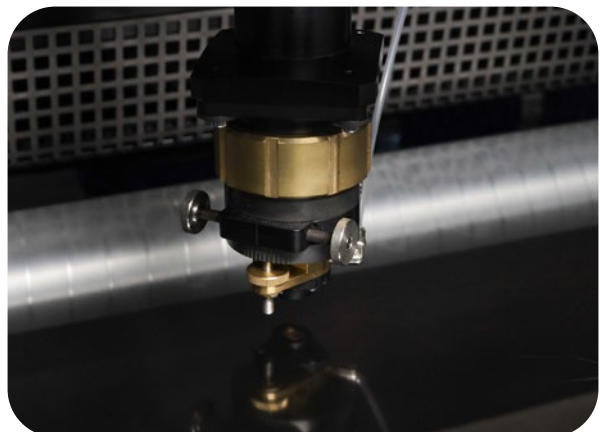
The PackMaker laser system can be integrated on existing production lines (such as slitter-rewinder or similar) and it can be equipped with up to 8 independent laser sources.

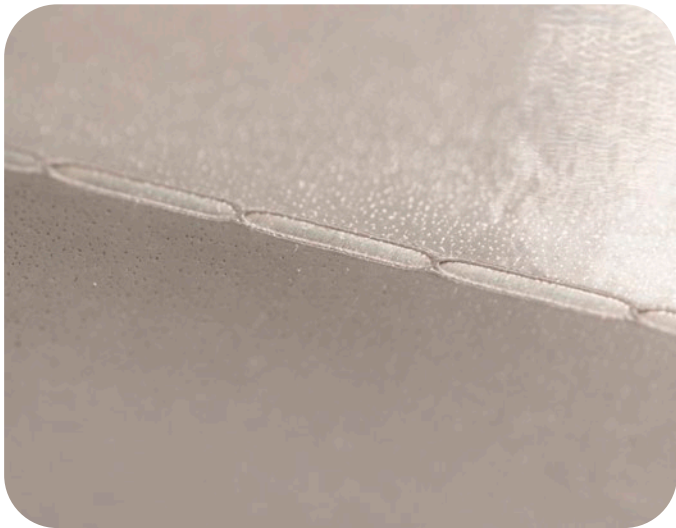
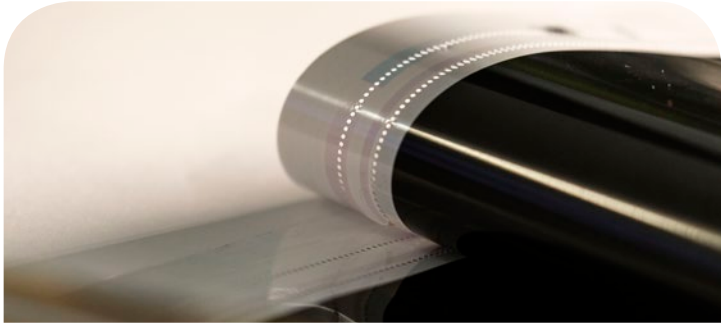


**S** = Scanning head OEM15 (with working area 200x200mm)  
 PERFORATION WITH "HOLE RUN MODE" (no hole ovality) + ANY TYPE OF LASER JOB INSIDE LASER WORKING AREA

**ST** = Scanning head + Focus optic MICRO-PERFORATION WITH "HOLE RUN MODE" (no hole ovality) + SCORING OR DASH-MODE IN WEB DIRECTION

**T** = Focus optic 1,5", 2" or 3" MICRO-PERFORATION WITHOUT "HOLE RUN MODE" + SCORING OR DASH-MODE IN WEB DIRECTION



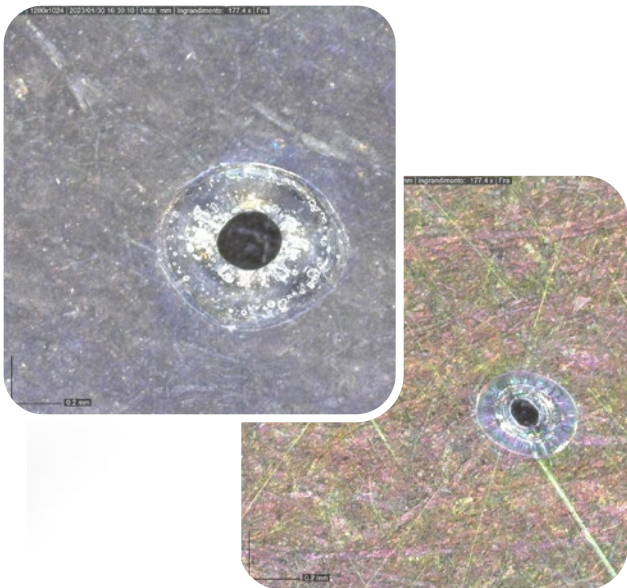


**Characteristics:**

- Compact laser module
- Upgradable system
- Up to n.8 laser module on the same structure
- Compact machine overall dimensions
- Different laser module type for different laser job type on material
- Several idle roller for a correct material tension under laser working area
- Motorized laser module positioning

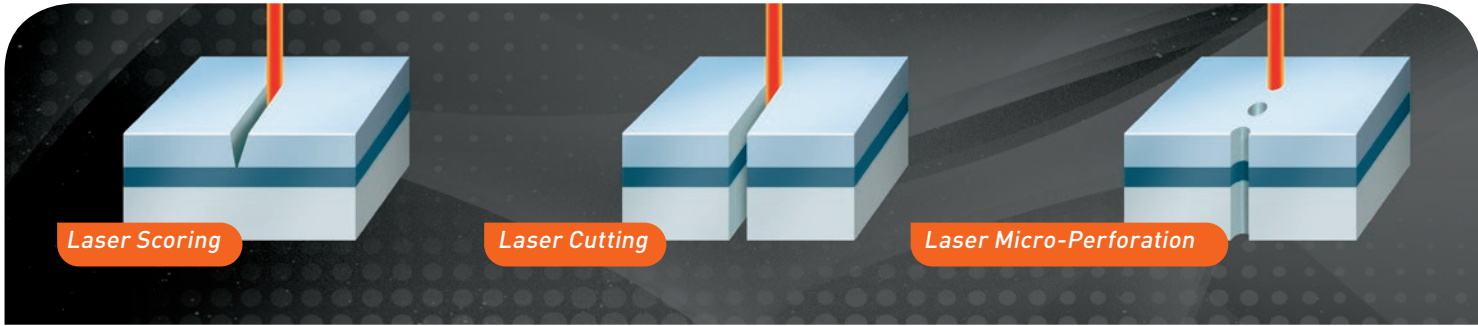


**OFFICIAL  
VIDEO**



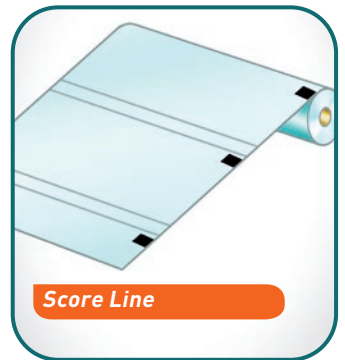
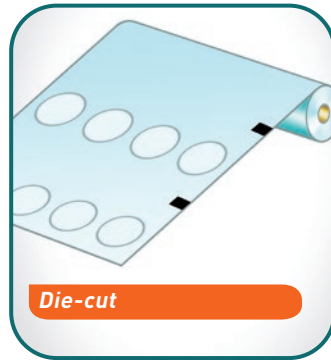
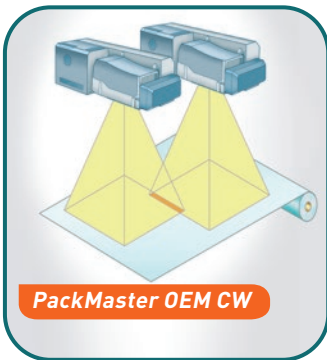
**PackMaker**



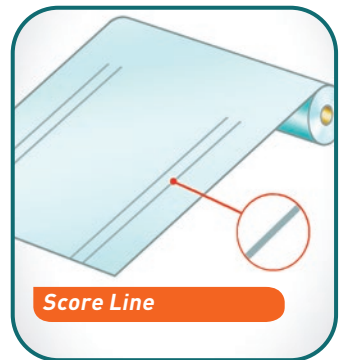
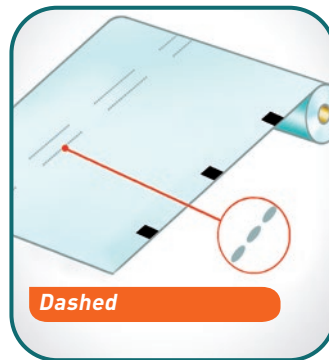
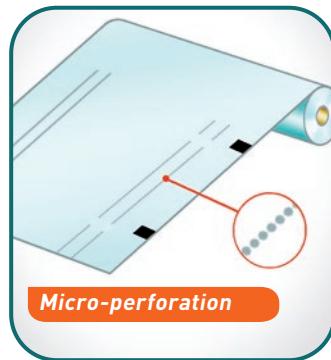
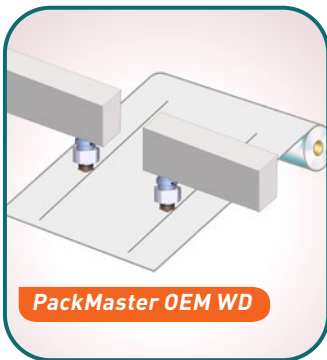


# PackMaster Configurations

## CW CONCEPT



## WD CONCEPT



**PackMaker = CW concept + WD Concept**



**CLOSABLE BAGS**



**MICRO & MACRO PERFORATION**



**EASY OPENING WITH CONTROLLED DIRECTION**

**PEEL & RESEAL PACKAGING**



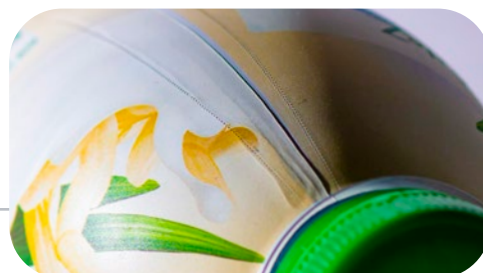
**FRUIT & VEGETABLE PACKAGING**

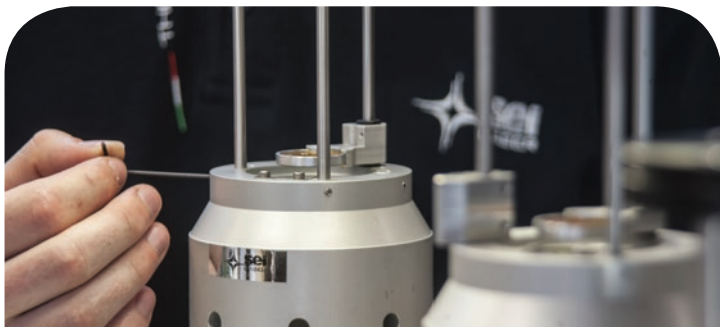


**DIE-CUT LASER WINDOW PACKAGING**



**SHRINK-SLEEVE**

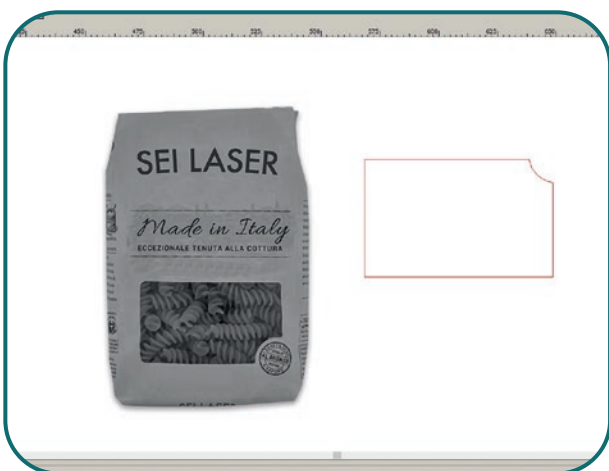
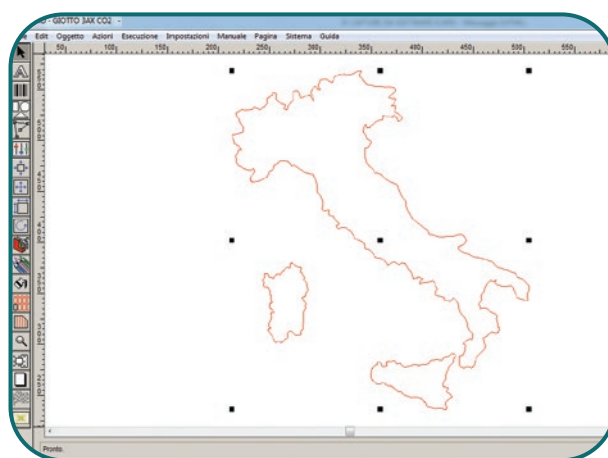




# Why SEI Laser?

We are worldwide leader in laser technology. We produce all our laser systems in Curno and Buja production sites. All the stages of the production process are fundamental. Each mechanical, electronic or optoelectronic component is produced internally and tested carefully before assembly. We produce and test our laser systems, we develop the firmware & software.

A state-of-the-art technology requires commitment; our history is based on loyalty and mutual respect with customers. This alchemy enables us to establish strong connections with our customers which last for decades and are constantly renewed.

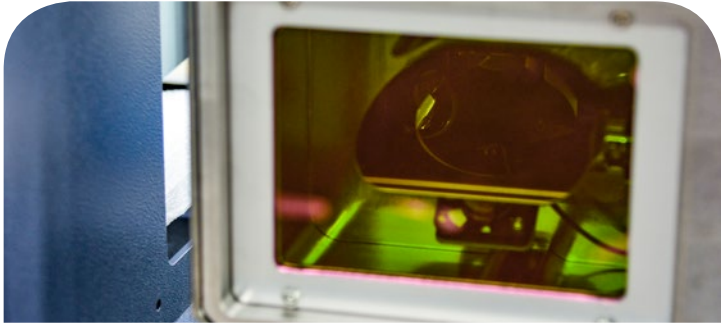


## SOFTWARE ICARO

Our proprietary Icaro software, which is very intuitive, user-friendly and innovative, has been developed specifically by SEI Laser for flexible packaging industry.

The easy import of the files and the easy setting of the laser parameters make Icaro the innovative multifunction software interface made 100% SEI Laser. It is also possible to verify the progress of the process by video.

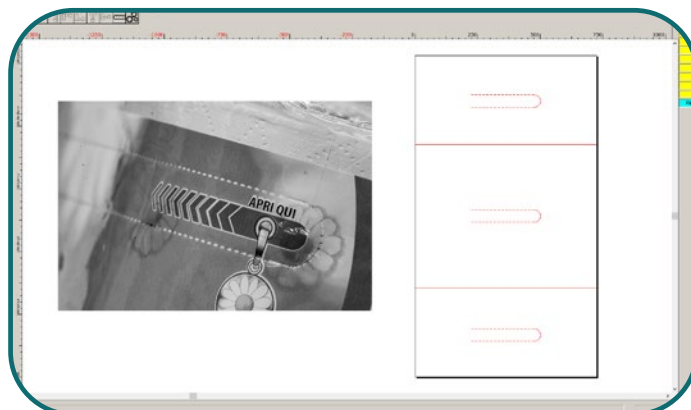
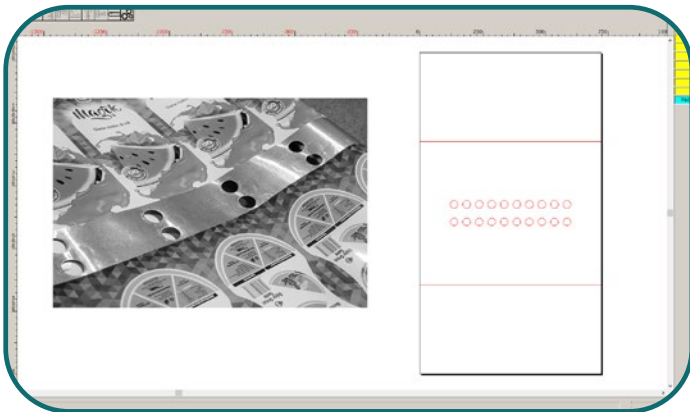




## EASY IN-LINE INTEGRATION

PackMaster OEM CW and PackMaster OEM WD are designed to be easily integrated in existing production lines.

SEI Laser is the technological partner for the complete resolution of all issues related to the integration of the laser technology in the industry, from small production sites to the high production industrial lines.





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