

X-WAVE CONVERTING





Since 1982 we are a **Laser focused company** with the goal to provide innovative solutions to our partners to satisfy the specific market's requirements. Thanks to our **know-how** we design laser systems that guarantee significant performances in terms of cost saving, operational efficiency and final product quality.

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

THE LASER WAY

SEI Laser systems are **100% manufactured in Italy**.

The software and firmware that control SEI Laser systems are developed by internal Software R&D Department to meet the different customers' requests in real time.

SEI Laser can rely on its branches, spread all over the world, to guarantee **excellent support** both during and after sale.

A state-of-the-art technology requires commitment; our history is based on loyalty and mutual learning with customers. This alchemy enables to establish **strong connections** with our partners and the development of **unique solutions**.



X-Wave Converting: digital laser cutting in the corrugated application field is finally a reality.

The need for on-demand and especially for customized packaging has grown rapidly due to the exponential development of e-commerce and the consequent demand of packaging that can manage the risks of direct shipment to the consumer.

Companies must ship their products safely, using packaging that meets the standards of the future for environmental sustainability. The box must stick perfectly to the packed merchandise in order to remove all non-recyclable fillers such as polystyrene, bubble wrap etc, and thus reduce waste. This contributes to reducing costs and translates into savings for companies, with positive consequences on the environmental impact. Corrugated board is the recyclable material par excellence and can be reused for the creation of new objects in a virtuous and circular economy. Corrugated board is increasingly used for the creation of floor or counter displays in the Graphic Arts and Visual Communication application fields. In addition to its inherent versatility, the lightness makes it the ideal material for transport and distribution.

Corrugated displays also offer huge creative possibilities: designers can use intricate graphics and shapes to attract customers' attention and promote their products more successfully.

For this reason, **X-Wave Converting** is born: a completely innovative production line, based on the most sophisticated laser technologies for cutting and creasing corrugated board, able to digitally produce custom-made packaging and displays.





READY FOR A NEW JOURNEY



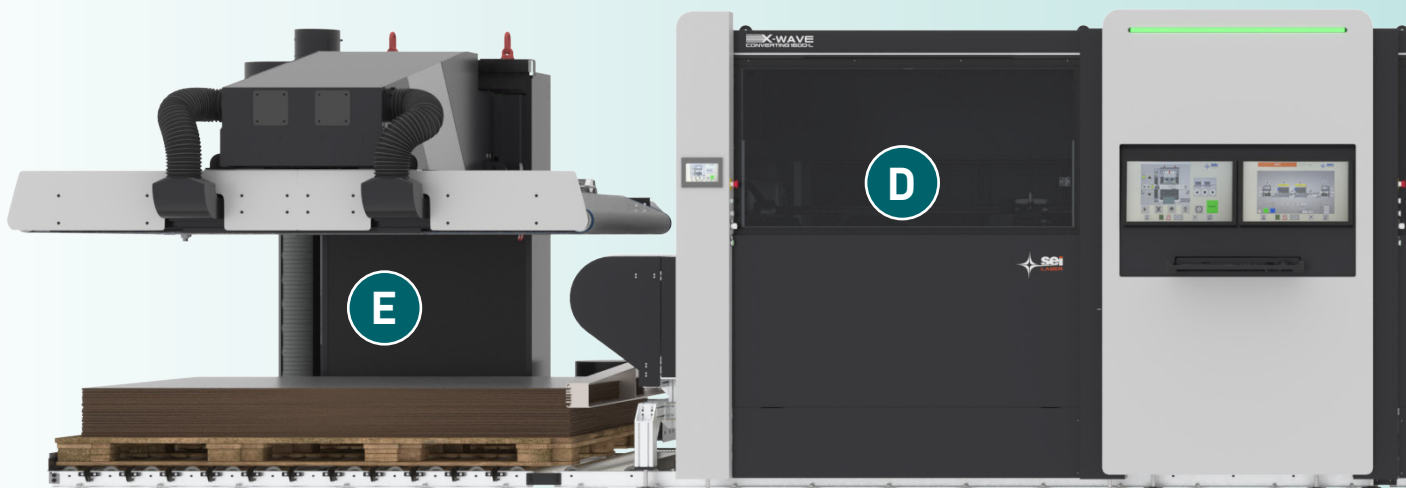
X-WAVE CONVERTING

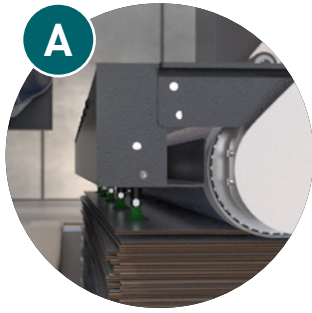
X-Wave Converting is a modular production line, consisting of the following process stations: loading, visioning, digital creasing, laser cutting and unloading, each equipped with specific conveyors.

The entire machining process is “on-the-fly”, without any interruption or pause, thanks to the sophisticated automation of SEI Laser, which keeps the conveyors synchronized.

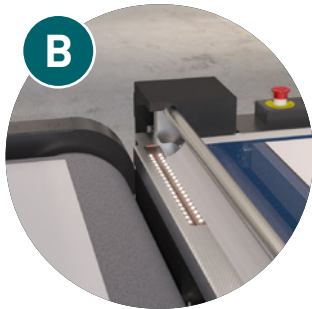
The transport speed of the material is optimized according to the maximum speeds of each single process, the workflow is therefore carried out without any discontinuity.

A high-resolution vision scanner system equipped with innovative optical sensors allows the registry creasing and laser cutting, compliancy with printing.





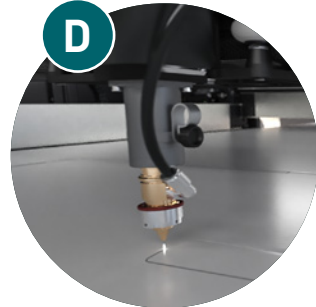
FEEDER



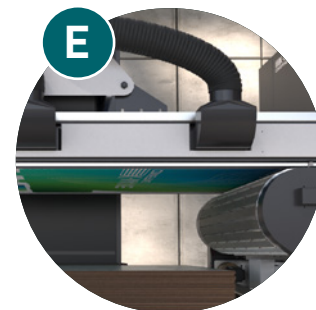
REGISTER TABLE



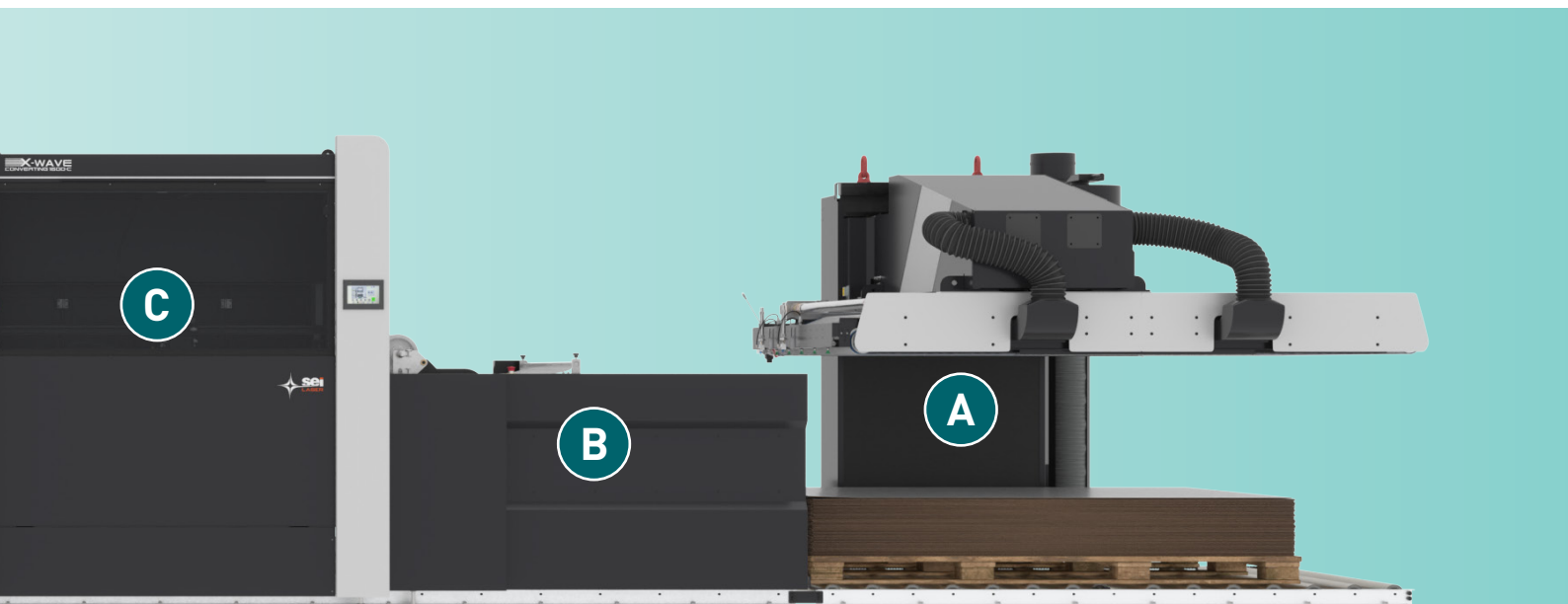
DIGITAL CREASING STATION



LASER CUTTING STATION



STACKER



UNIQUE PLUS

X-Wave Converting offers numerous unique advantages in corrugated production processes in just one system.



PRODUCTIVITY

Carbon fiber beams, together with creasing and registry die-cutting, ensure a series production without reservations in terms of quality, precision and accuracy. The productive benefit is up to 6 times greater than the use of traditional blade finishing systems and results in 150 displays/h and 500 boxes/h.



SPEED

The speed and acceleration performances reach values of 4 m/s and 6g.



DIGITIZATION

The complete digitalization of the process makes the change of work extremely fast and intuitive, leading the operator in all phases.



OPTICAL REGISTERS

X-Wave Converting optical registers ensure fast and easy material loading.



SCANNER TECHNOLOGY

The innovative scanner technology for cutting and creasing corrugated board requires no maintenance or calibration over time.



MODULARITY

The system has been specially designed to be modular and integrated into existing workflows.



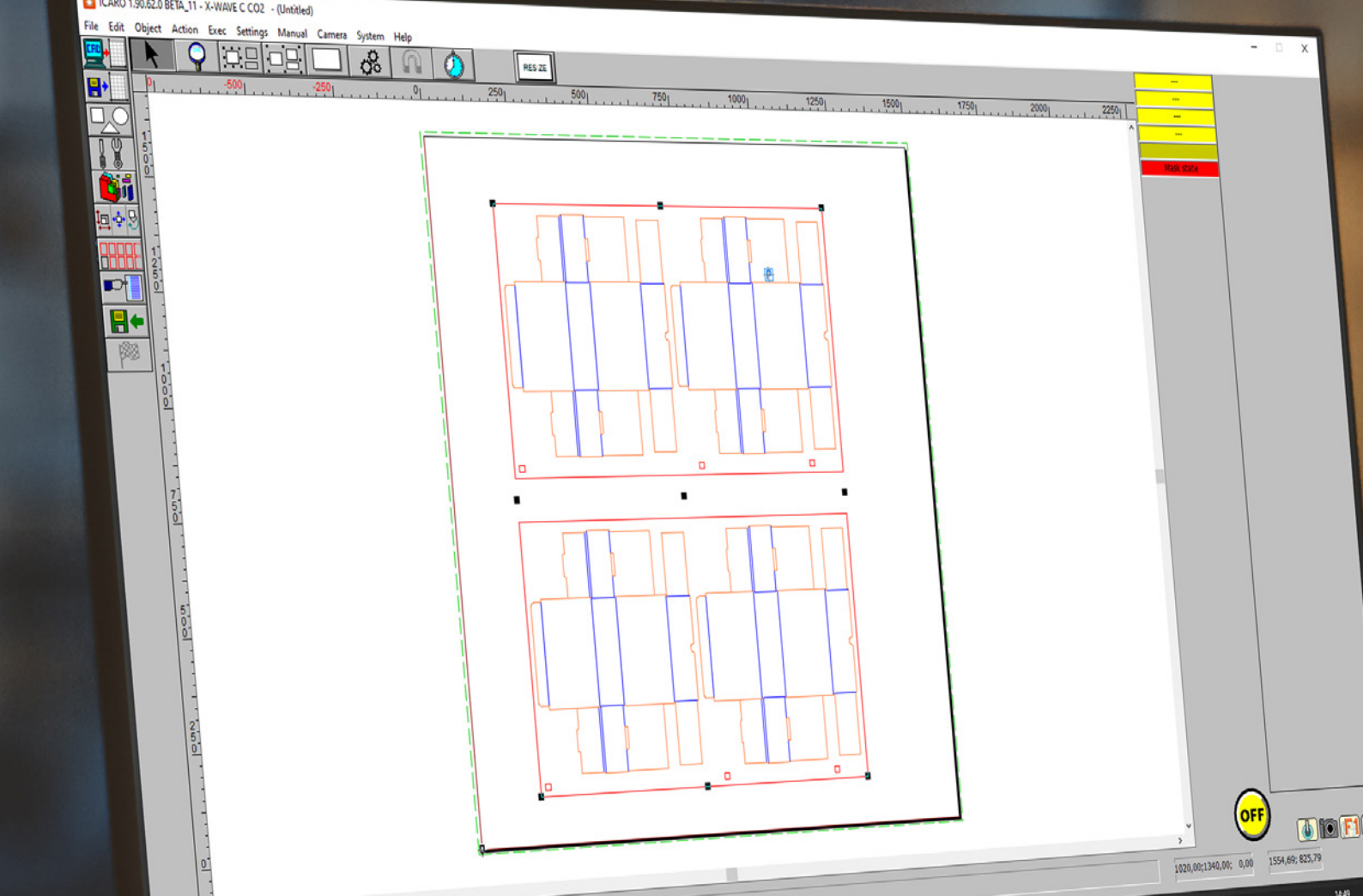
**Flexible
Digital**

**Simple
All In One**



**Ultra fast
Efficient**





Icaro is the proprietary software of SEI Laser, extremely intuitive and user-friendly.

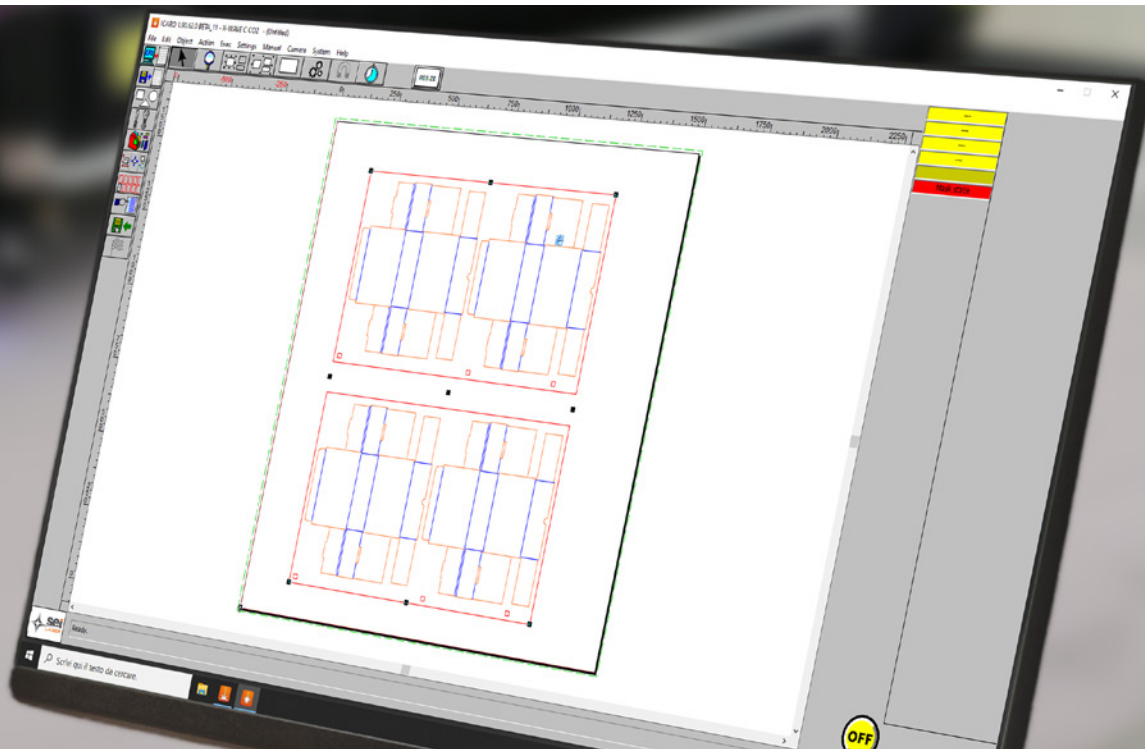
It has been specially developed to meet the needs of many industries, including Graphic Arts, POP/POS Displays, Packaging and Corrugated Board.

The easy import of files, both CAD and graphic, and the simple setting of laser parameters, make it a true multifunctional software interface.

X-Wave Converting perfectly adapts to your workflow, deleting waiting times, procurement and transportation costs.

Through the “on the fly” reading of QR-code/barcode in line, this finishing line does not need time for file loading, register, parameterization, operator intervention or set-up, eliminating both downtime and material waste.

ICARO SOFTWARE



INSTALLATION

All **SEI Laser** systems are designed for integration into automated digital control production processes and are **certified** for compliance with Industry 4.0 legislation.

All SEI Laser systems are certified to meet the following requirements:

- control by means of CNC (Computer Numerical Control) and / or PLC (Programmable Logic Controller);
- interconnection to factory IT systems with remote loading of instructions and / or part programs;
- automated integration with the logistic system of the factory or with the supply network and / or with other machines of the production cycle;
- simple and intuitive interface between man and machine;
- compliance with the most recent parameters of safety, health and hygiene in the workplace.





SEI Laser, thanks to its wide range of technical assistance services offered and its widespread presence, guarantees a punctual, effective and personalized response to the different needs of customers. In addition to technical interventions in the field, SEI Laser offers a valid **remote control** service.

The communication between the company and the customer, managed in real time via chat, allows the operator to be guided **step-by-step** in the following technical operations:

- visualization and modification of the configuration **parameters** of the laser system;
- visualization and modification of the working parameters;
- **diagnostics** of the laser source and control parts;
- LOG relating to the operation history;
- file transfer;
- update of the machine management software.

AFTER SALES



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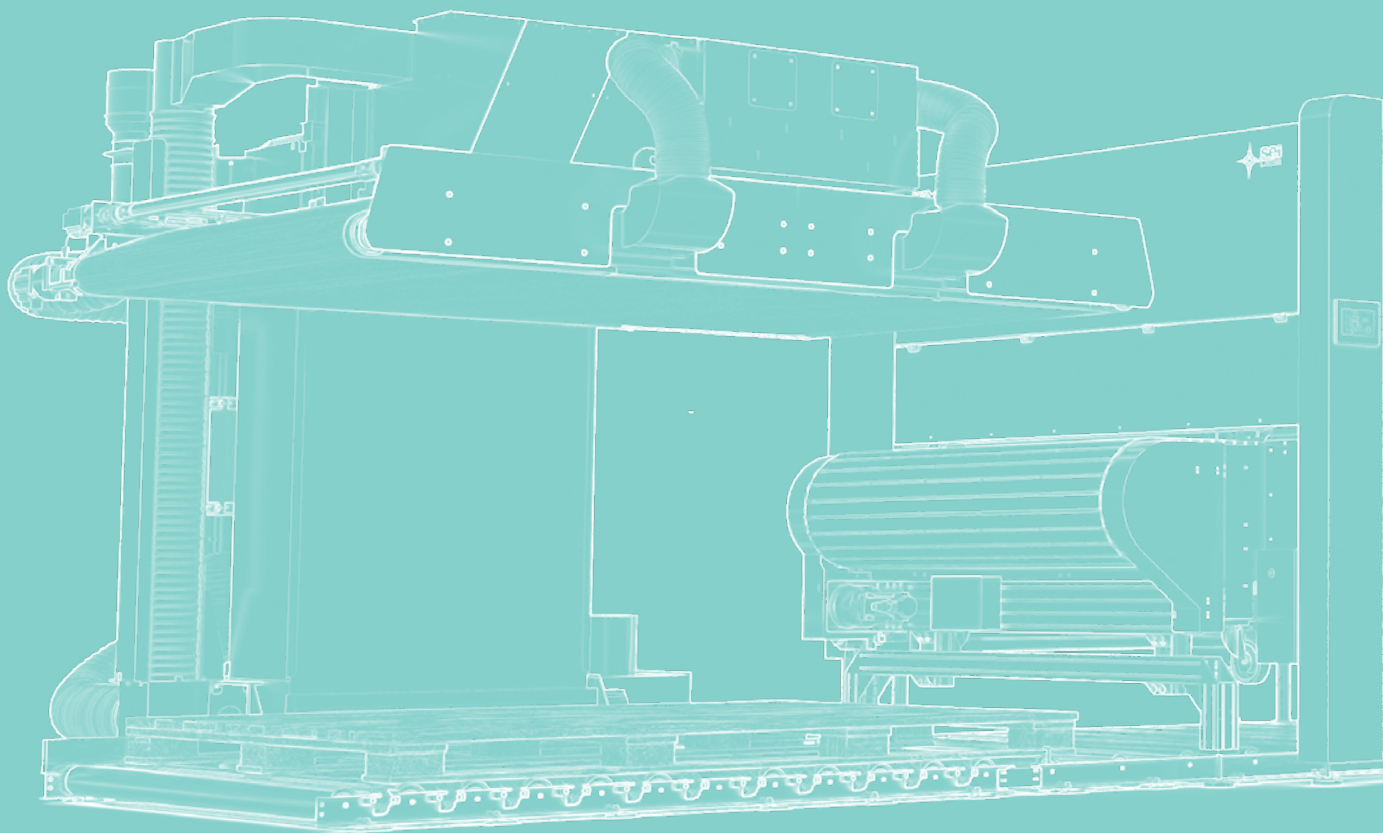
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