

FLEXI LINE





We have been a solid industrial reality, leader in laser technology **since 1982**.

We are the ideal partner at the service our customers, offering them innovative solutions able to fulfil the specific requests of the reference market.

Thanks to our know-how and continuous investments, we supply laser systems that ensures significant performances in terms of costs, operational efficiency and quality of the product.

The complete laser systems range, developed by our R&D department, creates **value** and meets our customers application needs.

THE LASER WAY

We have been producing our laser systems in Italy since **40 years** thanks to our five departments (mechanical, electronic, optoelectronic, IT and production) that follow all development process stages.

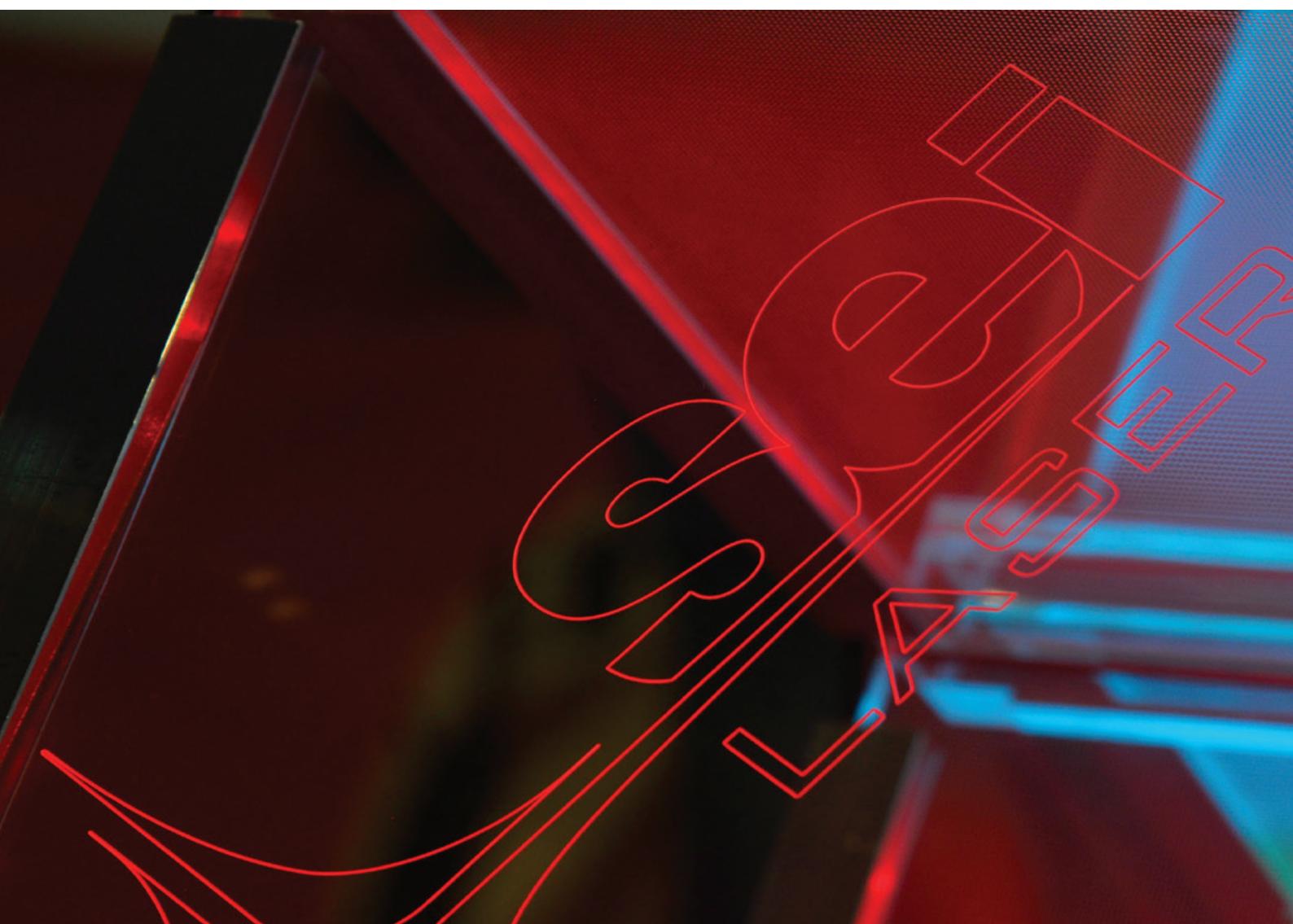
SEI Laser systems are controlled by software and firmware developed internally, by a team of expert programmers able to respond promptly to the various application needs.

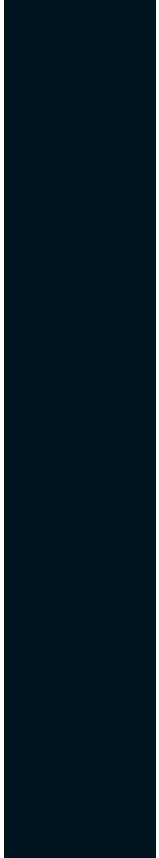
Cutting-edge technologies require commitment and constant research: our history has its cornerstones in loyalty and mutual esteem with customers.

This alchemy has allowed us to establish professional and **solid** relationships, which have lasted for decades and are constantly renewed.



LET
YOUR
CREATIVITY
OUT

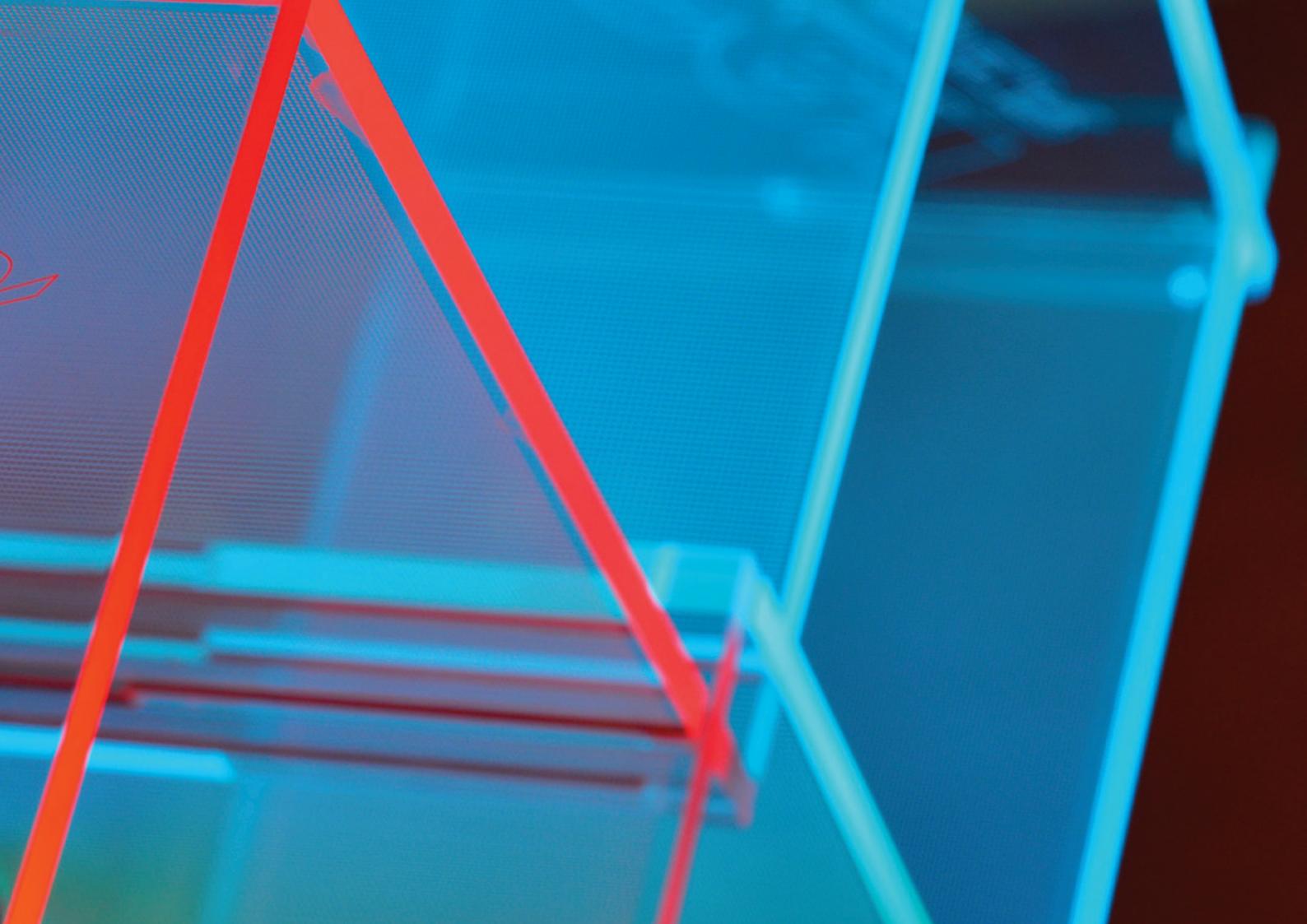




SEI Laser, the leading Italian industrial laser systems manufacturer, presents **Flexi 6/8/12 xx**, the innovative and flexible laser systems range, specifically designed to meet **all** customer's needs thanks to its configurations.

Available in over **30** models and equipped with laser power sources from 150 to 500W, it allows the plate processing.

Flexi 6/8/12xx allows marking, surface engraving, micro-perforation and cutting of sheet materials.



FLEXI T

MOBILE WORKTOP



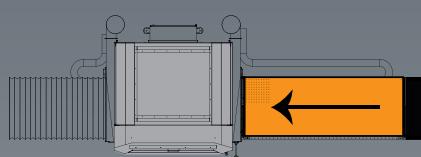
1224 T
2400x1200 mm

816 T
1600x800 mm

824 T
2400x800 mm

1230 T
3000x1200 mm

working area



Flexi T is the “top of the range” professional laser system for marking and engraving of sheet materials and both cutting and half-cutting of sheet materials.

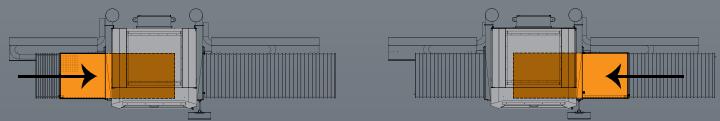
Flexi T is equipped with a mobile worktop for processing materials larger than the working area.

The machine high **accuracy** and repeatability are combined with the top of the sector galvanometric head dynamic performances: the maximum speed is over 15000 mm/s and the acceleration easily overcomes 10 g.

The machine extremely rigid solid structure, in electro welded steel, combined with the movement of the X-axis, through high-precision optical scales, guarantee unique production and quality performances even for intensive use 24/7.

Flexi TT represents a specific operating mode, that thanks to a particular software configuration, allows to use the machine worktop in pendular mode in order to optimize the loading / unloading material time and increase the machine productivity.

In some machine configurations this operating mode is available as standard.



808 TT
800 x 800 mm

824 TT
2400x800 mm

1230 TT
3000x1200 mm

working area



FLEXI TT PENDULAR

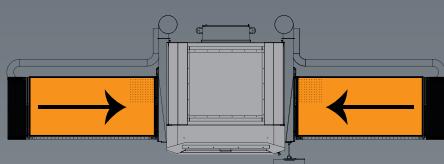
FLEXI 2T DOUBLE WORKTOP



| |
|--------------------------------|
| 1216 2T 1600x1200 mm |
| 816 2T 1600x800 mm |

working area

Flexi 2T, with double table configuration, allows also to work on-the-fly mode on one table and carry out loading and unloading operations in masked time at the same time on the other table, guaranteeing higher productivity without downtime, always in maximum safety.



Flexi 1300 conveyor is the professional laser system that guarantees the maximum productivity processing, roll materials finishing and micro-perforation.

The **Flexi 1300 conveyor** system is specifically designed to cut, mark and engrave roll materials with a maximum width of 1300 mm and with a productivity up to 10 times higher than traditional and existing laser technologies, maintaining the highest quality.

The transport conveyor, specially developed for laser processing, allows extremely accurate creations and exceptional cutting quality.

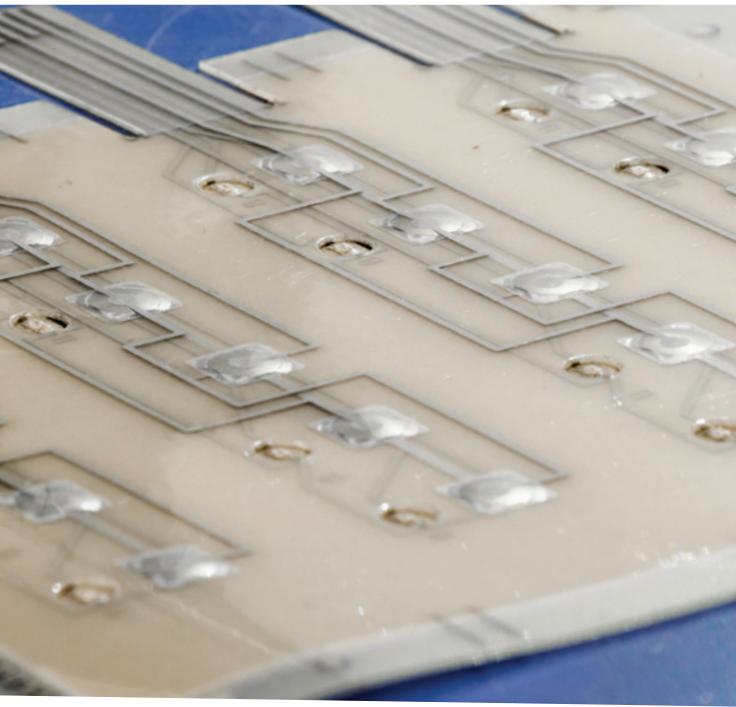
1300 Conveyor
1300x1300 mm

working area



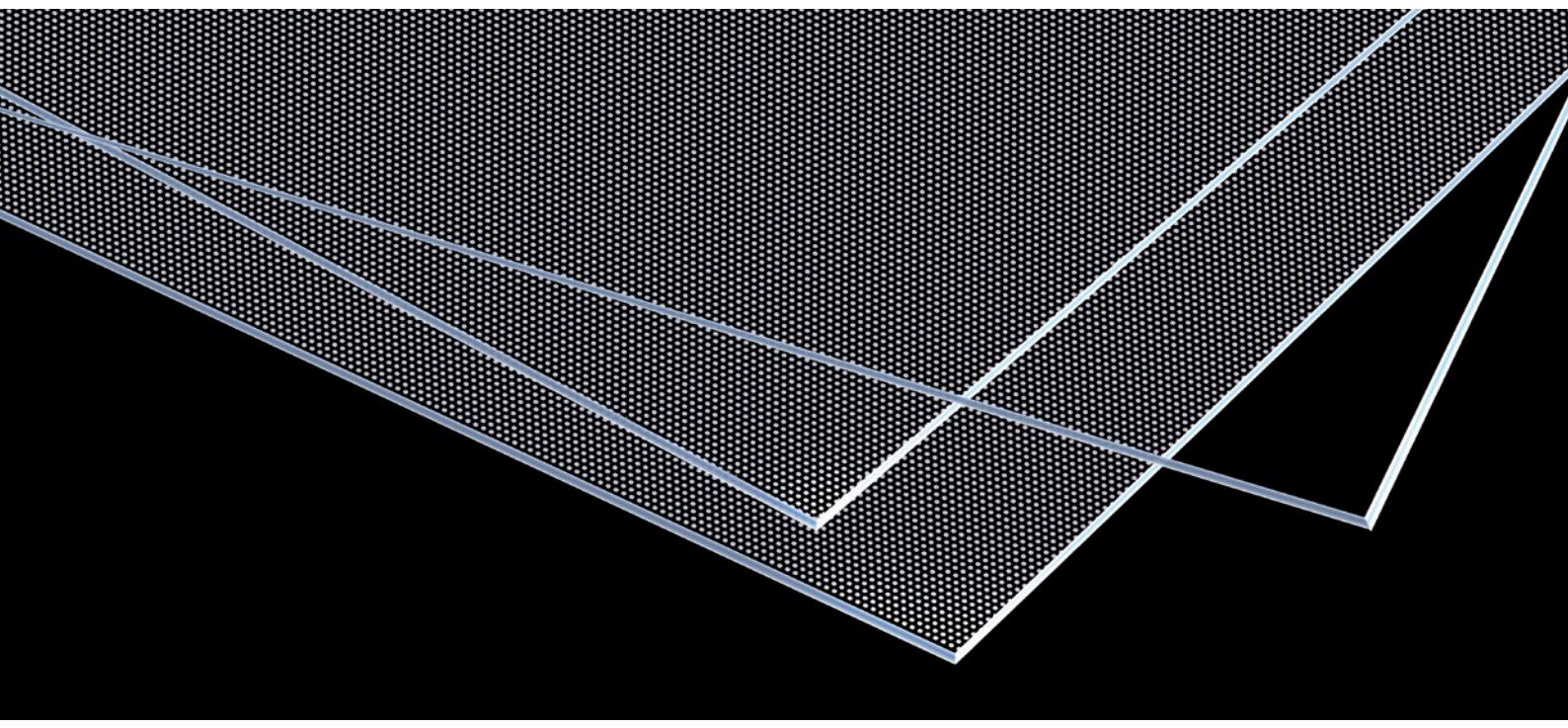
FLEXI 1300 CONVEYOR

UNIQUES PLUS

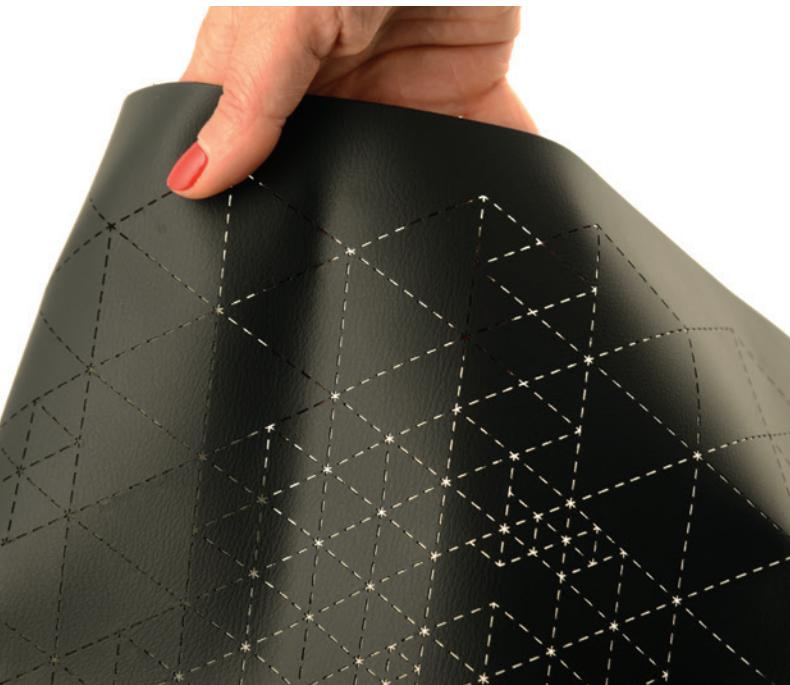
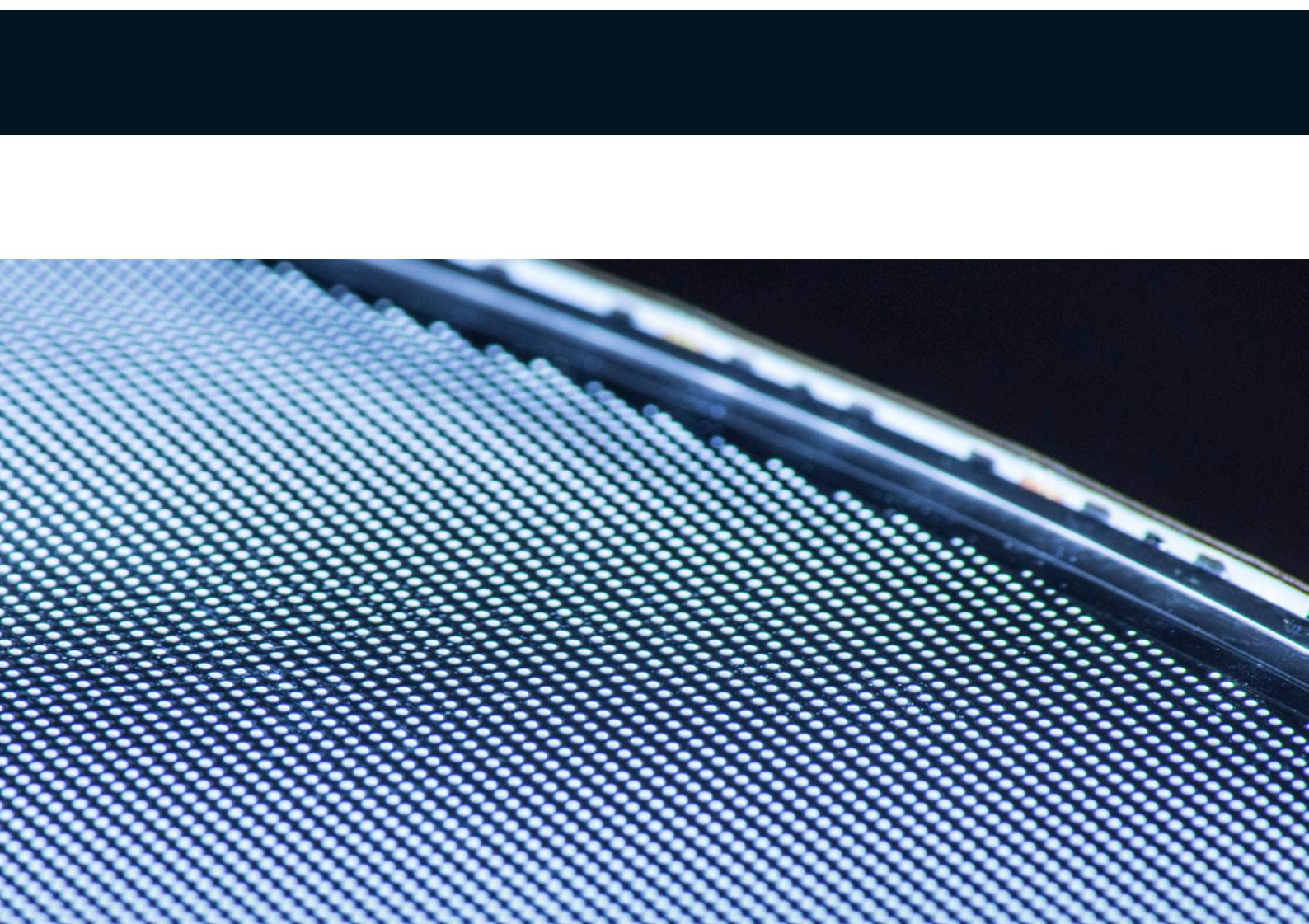


- Easy use.
- High process speed and productivity.
- Top sector performances thanks to the equipped linear motors and the control algorithms developed by SEI Laser.
- Very low maintenance, robustness and laser source long life.
- Electronic Z-axis to optimize the working area and the laser spot.
- Various configurations that make the system suitable for any environment and production process.
- Industry 4.0 ready: simple insertions into digitized and automatic workflows.
- 100% made in Italy.





- Protection cabin for maximum safety, in compliance with current regulations.
- Complete range of scanning heads available Hi30 Hi50 I-scan.
- Worktop movement controlled by high precision optical strips to work “on the fly”.
- Extremely robust electro-welded steel frame.
- Class 1 for operator safety.
- Icaro software proprietary, intuitive and user friendly.

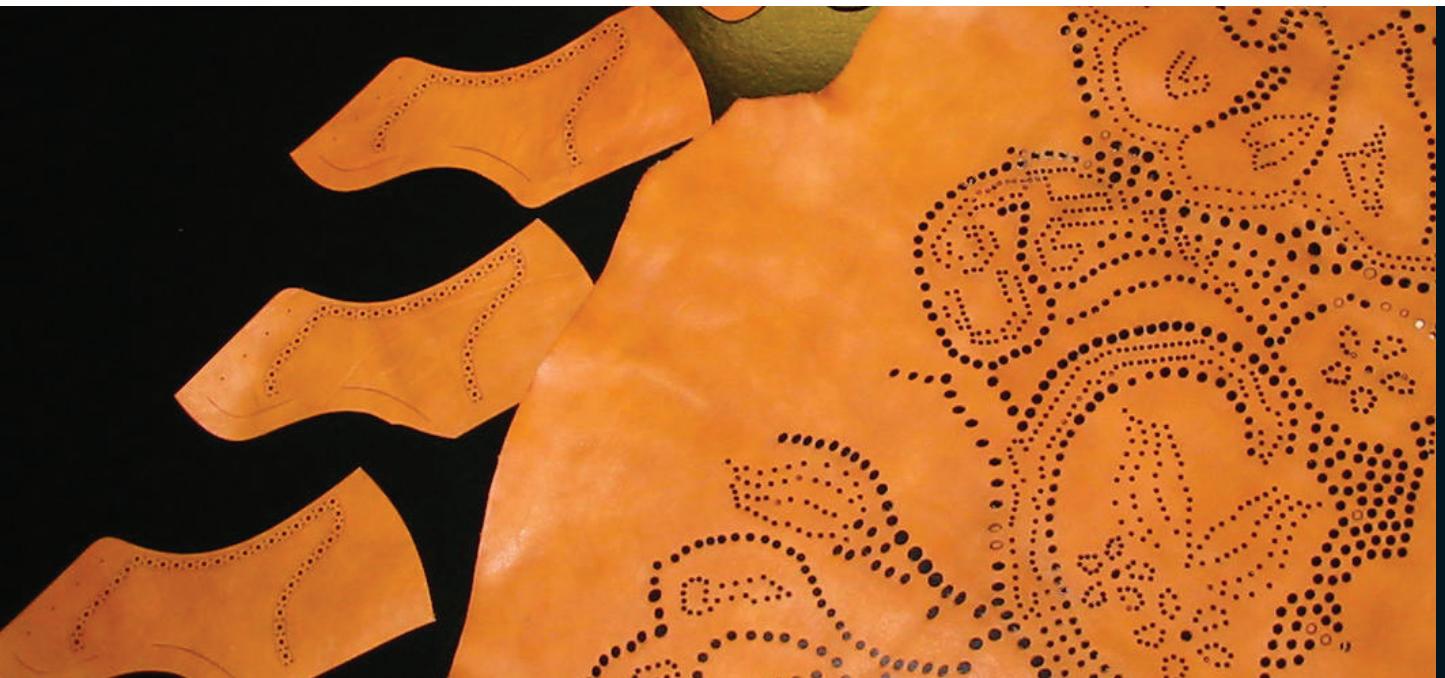


**100%
MADE
IN ITALY**

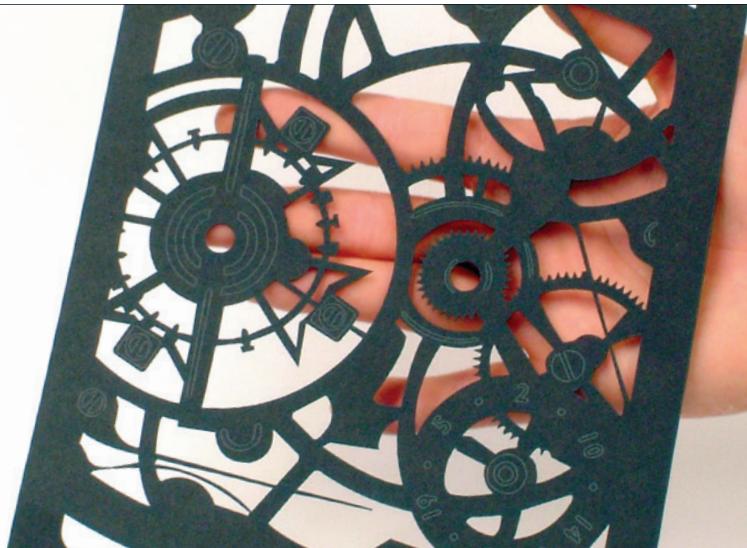
EXTREME FLEXIBILITY

The various FLEXI LINE available configurations make the system suitable for any environment and production process.

- CCD camera for laser cutting in register and for automatic work files upload, thanks to the 2D and 3D codes reading.
- Smoke aspiration optimized also for “on the fly” processes.
- Customizable worktop to adapt to all kind of workings.
- Special Hardware/Software configuration for high-speed “on the fly” processes (with micrometrical precision).



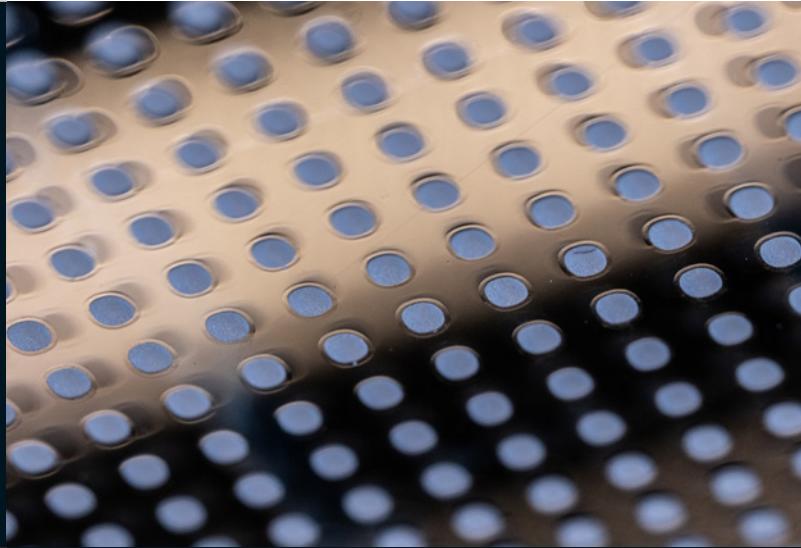
PROCESSABLE MATERIALS



Flexi Flexi Line is able to process countless organic and composite **materials** in sheet or roll format.

Plastic Materials:

Acrylic (PMMA)
Acrylonitrile Butadiene Styrene (ABS)
Composite materials
Acetates
Plastic laminated films
Adhesive film
Polyamide (PA)
Polybutylene terephthalate (PBT)
Polycarbonate (PC)



Polyethylene (PE)
Polyester (PES)
Polyethylene terephthalate (PET)
Polyimide (PI)
Polypropylene (PP - BOPP)
Polyphenylene Sulfide (PPS)
Polystyrene (PS)
Polyurethane foam (PUR)
Foam (PVC free)

**Fabrics:**

Polyester (PES)
Felt
Microfiber
Leather
Skin
Synthetic leather

**Natural fibers (e.g. cotton, linen)**

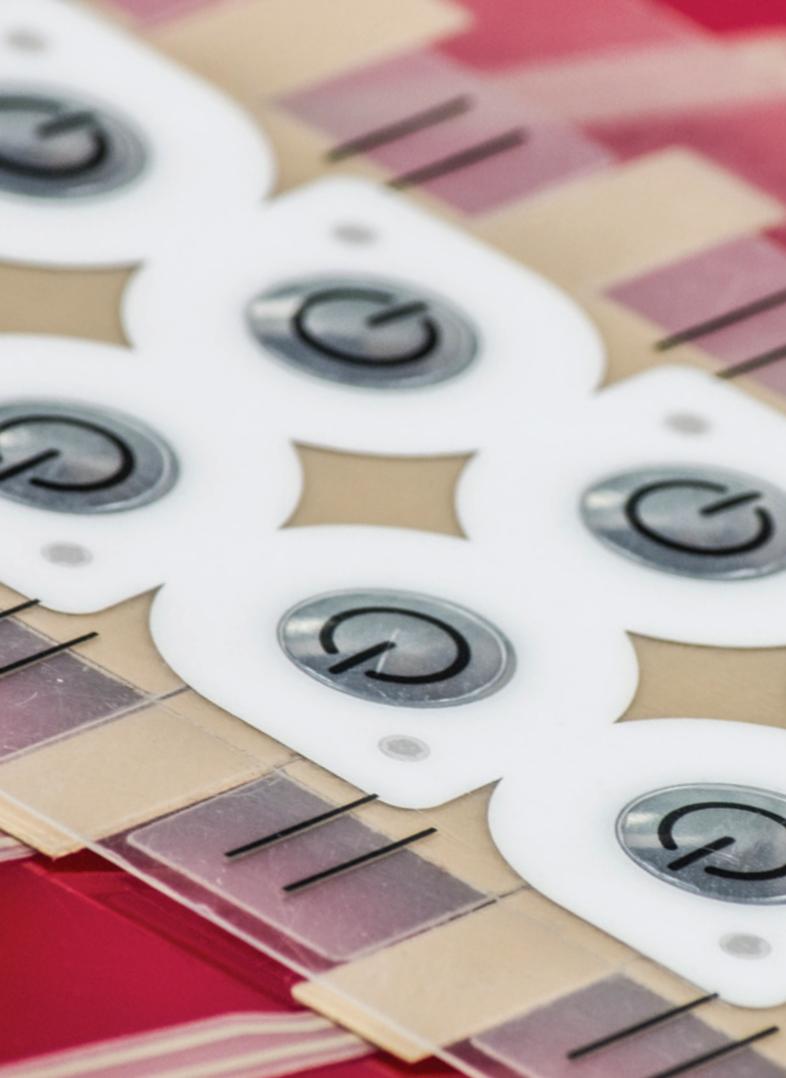
Synthetic fabrics
Technical fabrics
Foils
Wool
Silk
Kevlar

**Other materials:**

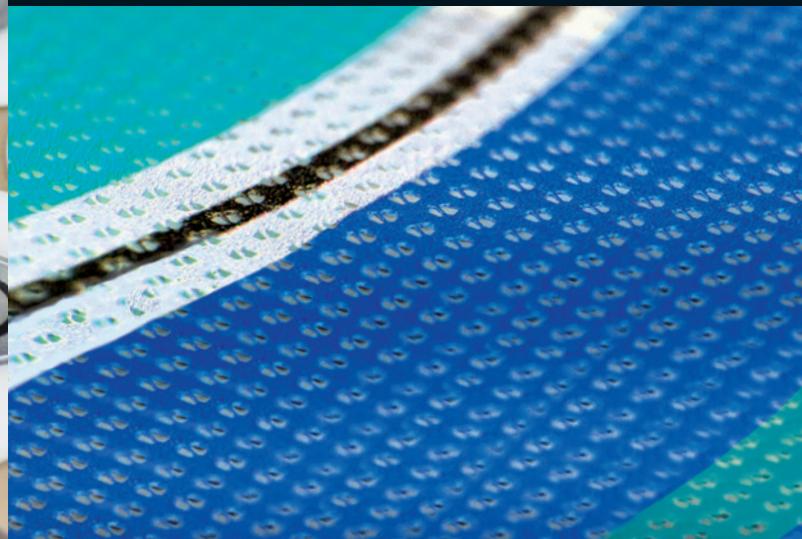
Wood
Paper
Cardboard
Cork
Glass
Rubber
MDF

ENDLESS APPLICATIONS

The various configurations available make the Flexi LINE system extremely flexible, perfect to meet any application need.

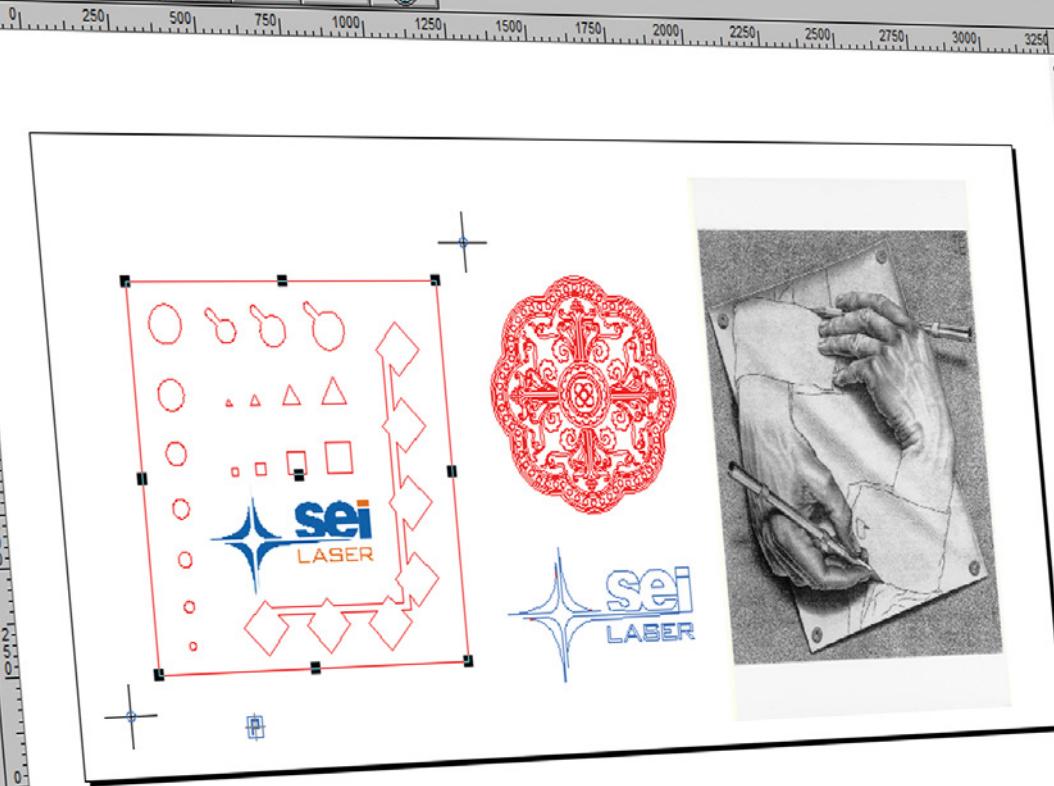


Objects,
furnishing accessories (customization),
decoration,
inlay,
stamps,
exhibitors,
footwear sector,
leather processing,
processing of sheet and / or roll materials,



lighting engineering,
electronics,
backlight,
automotive sector,
eyewear,
flags and banners,
signage,
sportswear,
packaging.





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| OBJ 22 |
| VECTOR |
| Vector30 |
| |
| Mask state |

 Enable

L1 C1

L2 C2

L3 C3

L4 C4

L5 C5

L6 C6

L7 C7

L8 C8

L9 C9

L10 C5

L11 C2

L12 C1

Mask



918,52; 918,52; 0,00

2227,80; 524,84

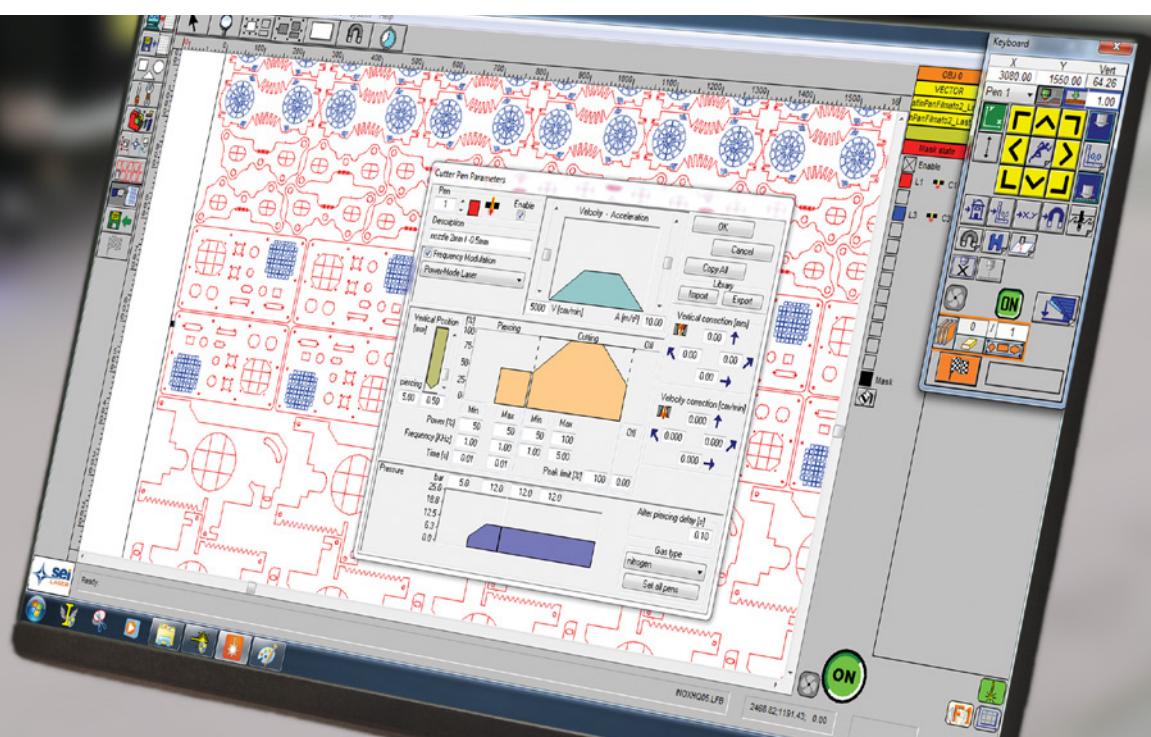
16:

Our proprietary software **Icaro**
it is extremely intuitive and user-friendly.

The easy import of both CAD and graphic files and the
simple setting of laser parameters make Icaro the
innovative multifunctional software interface,
100% SEI Laser “**made in Italy**”.

- CCD camera for laser register processing and automatic file upload thanks to single or multiple print markers and 2D / 3D barcode readers with radial / perpendicular RGB lighting.
- BLUE software for LED LGP backlights: developed specifically for cutting and marking PMMA panels.
- Thanks the integration of customized Post Processors, Icaro allows a simple, fast and intuitive job design and automatic laser system programming for cutting low thickness ferrous and non-ferrous metals.
- Effective system and laser source diagnostics: simple remote assistance operations.

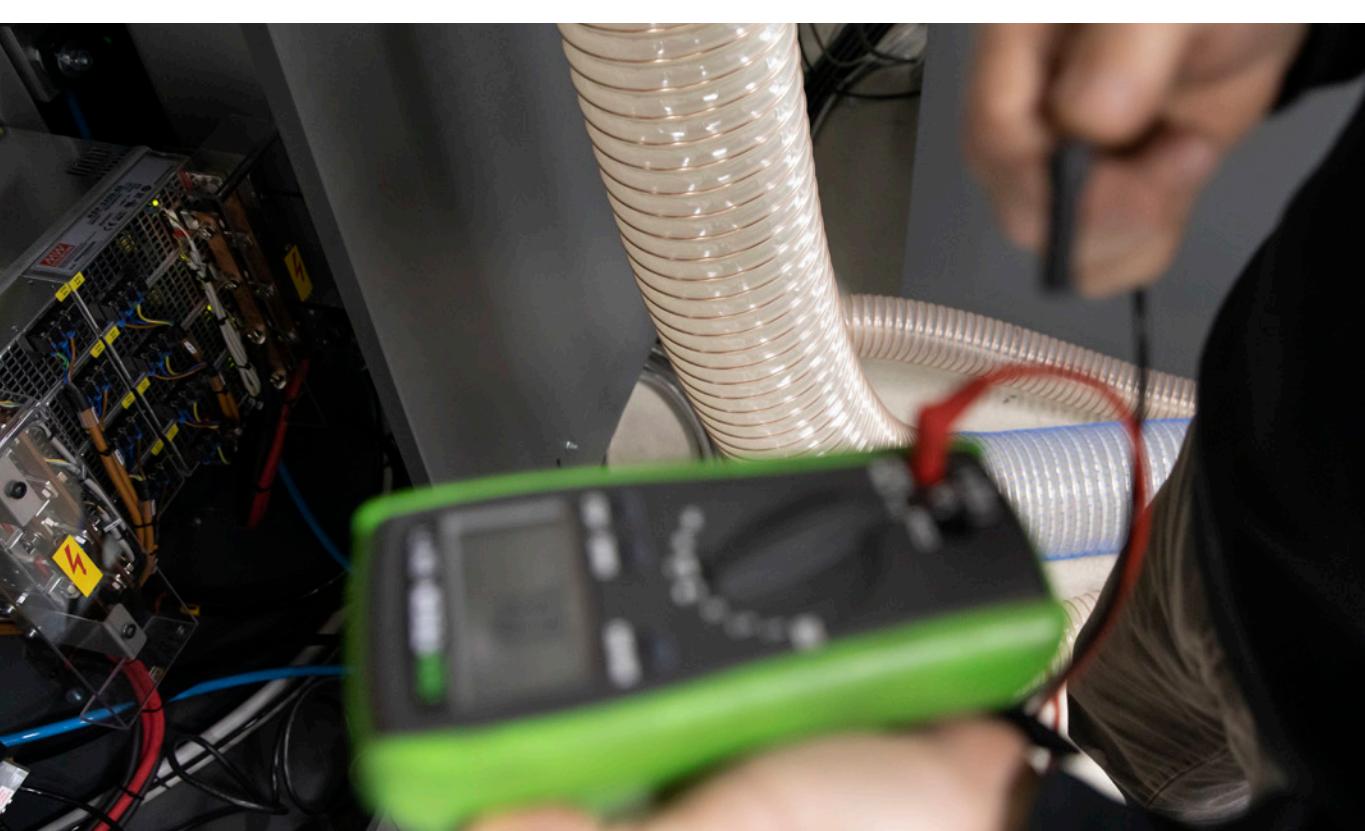
ICARO SOFTWARE



INSTALLATION

Every **SEI Laser** systems are designed for the integration into automated digital control production process and are **certified** in compliance with Industry 4.0 legislation. All SEI Laser systems are certified to meet the following requirements:

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

In addition to technical interventions on the field, SEI Laser offers a valide **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:

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

AFTER SALES

CONFIGURATIONS

Versions

Laser power (W)

Min working area (mm)

Laser spot size (mm)

Max working area (mm)

Laser spot size (mm)

Machine footprint area (mm)

Z axis travel (mm)

Scan Head

OPTIONS

CCD camera for cut-to print registration

Working table with vacuum and mechanical references for marking and dot etching (mandatory for BLU laser dot etching)

BLU HW/SW for LED LGP backlighting: (laser dot etching)

HW/SW option for pendular processing



| FLEXI 816 T | FLEXI 824 T | FLEXI 1224 T | FLEXI 1230 T | FLEXI 808 TT | FLEXI 824 TT | FLEXI 1230 TT |
|--------------------|-------------|--------------|--------------|--------------------|--------------|---------------|
| v150 - v300 - v500 | | | | v150 - v300 - v500 | | |
| >150 - >300 - >500 | | | | >150 - >300 - >500 | | |
| 500x500 | | | | 500x500 | | |
| 0,22 | | | | 0,22 | | |
| 800x1600 | 800x2400 | 1200x2400 | 1200x3000 | 800x800 | 800x2400 | 1200x3000 |
| 0,38 | | 0,55 | | | 0,38 | |
| 5000x2230 | 7300x2230 | 7300x2630 | 7630x2630 | 5700x2230 | 7300x2630 | 7630x2630 |
| 800 | | 1000 | 1200 | | 800 | |
| I-Scan | | I-Scan | | | I-Scan | |

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The technical specifications indicated, for illustrative purposes, may vary during the commercial offer phase

CONFIGURATIONS

Versions

Laser power (W)

Min working area (mm)

Laser spot size (mm)

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Laser spot size (mm)

Machine footprint area (mm)

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HW/SW option for pendular processing



| FLEXI 816 2T | FLEXI 1216 2T | FLEXI 1300 CONVEYOR |
|--------------------|---------------|----------------------------------|
| v150 - v300 - v500 | | v150 - v300 - v400 - v500 - v800 |
| >150 - >300 - >500 | | >150 - >300 - >420 - >540 - >780 |
| 500x500 | | 500x500 |
| 0,22 | | 0,22 |
| 800x1600 | 1200x1600 | 1300x1300 |
| 0,38 | 0,55 | 0,6 |
| 7628x2230 | 7628x2630 | 5830x2790 |
| 800 | 1200 | 800 |
| I-Scan | I-Scan | I-Scan |

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The technical specifications indicated, for illustrative purposes, may vary during the commercial offer phase

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**CLOSE TO
THOSE WHO
SEE FAR**

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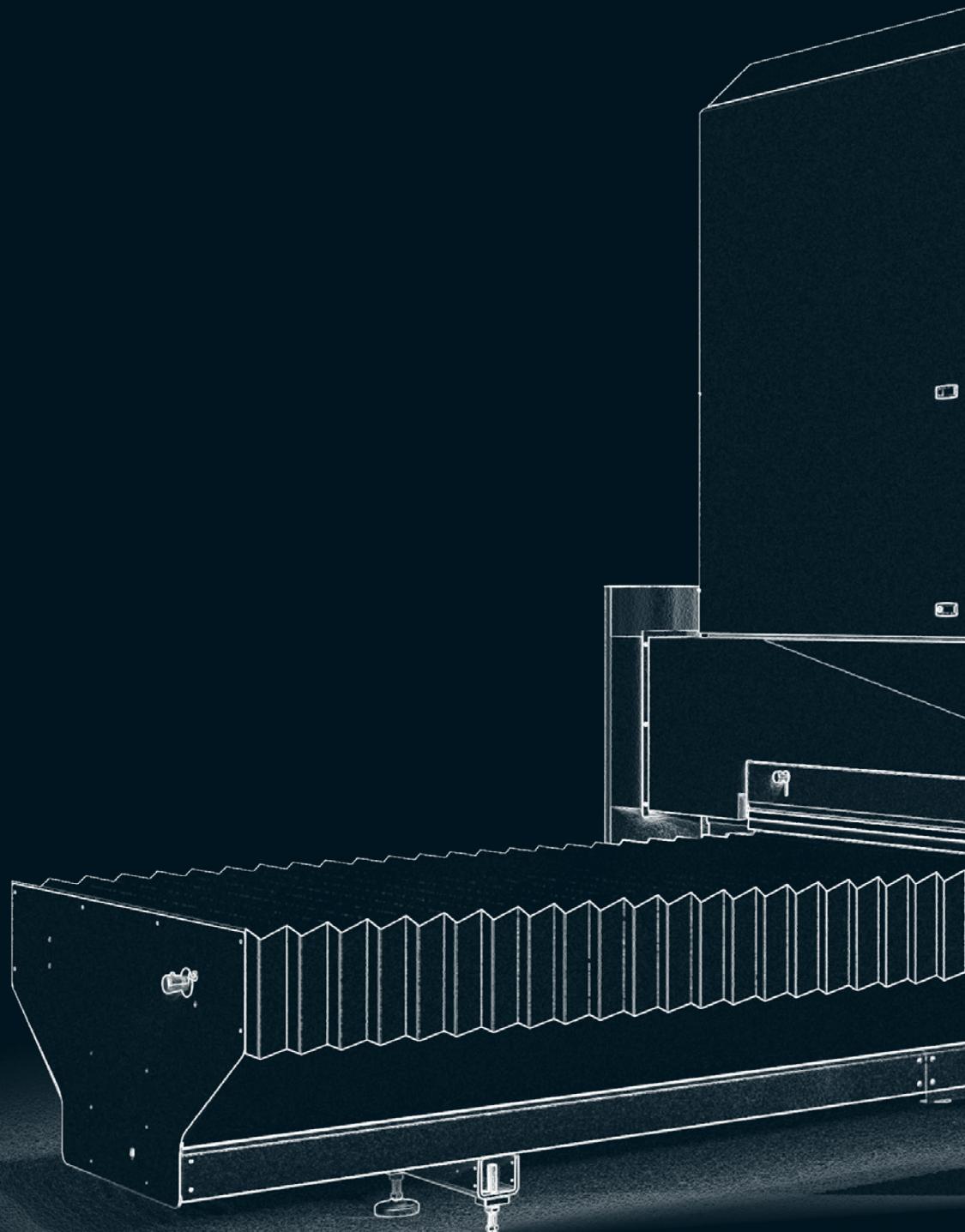
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