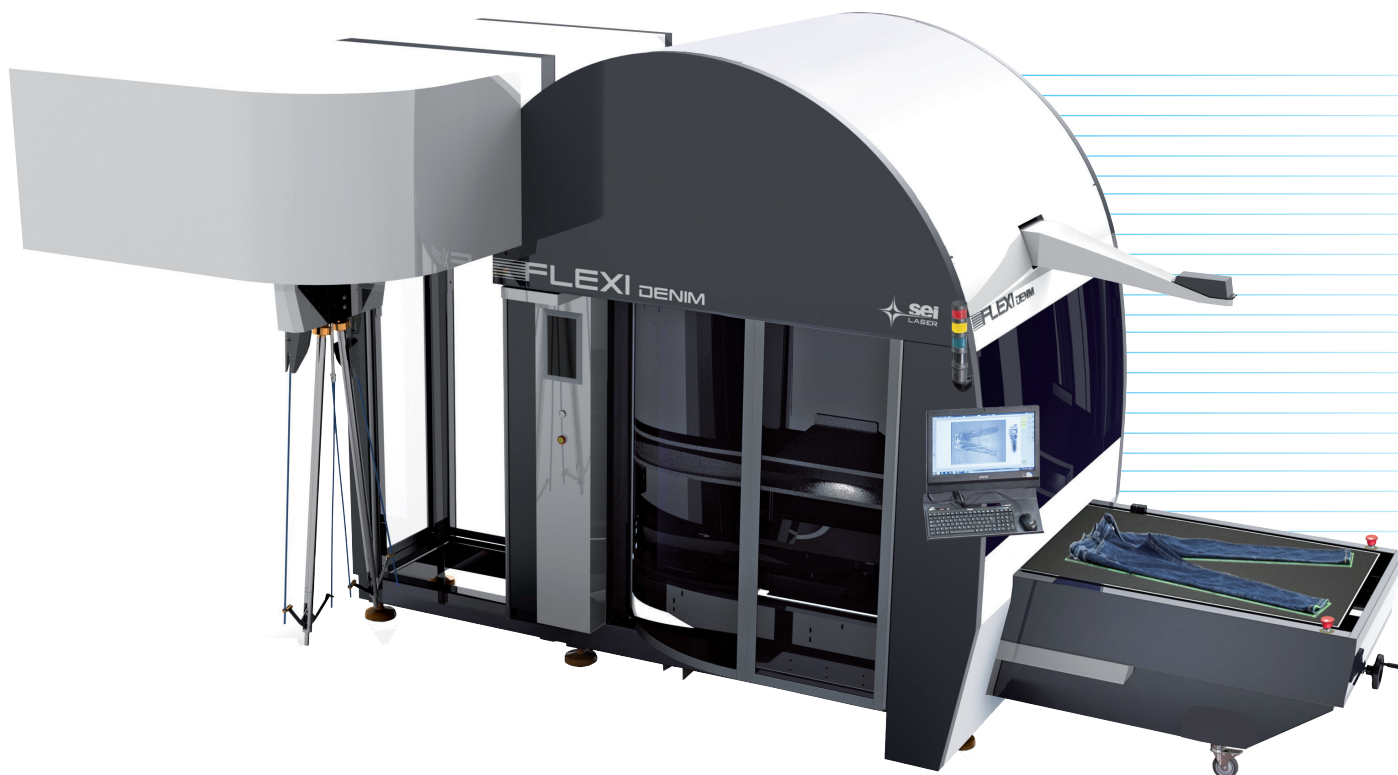


# FLEXI DENIM

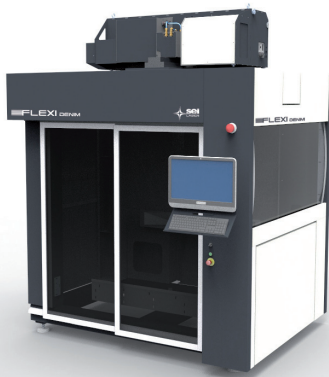
THE DIGITAL LASER TECHNOLOGY REVOLUTION FOR DENIM  
AND TEXTILE GARMENT FINISHING.



- **SEI Laser**, the leading Italian manufacturer of industrial laser systems, introduces **Flexi Denim**, the most innovative solution currently available in the textile market. It is specifically designed to perform with maximum efficiency and quality for all finishing operations on fabrics such as discoloration, abrasion, decoration, marking, engraving and cutting of the finished garment.
- **Flexi Denim** is a modular and flexible system for massive production. It can be custom configured to meet the needs of customer at the time of purchase and upgradeable later with additional options. Jeans can be processed horizontally on the tables or vertically on the mannequin (optional).
- Processable materials include denim fabrics and other natural or synthetic materials such as leather, TPU, etc.
- **Flexi Denim** is a product classified in Class 1 in conformity with IEC EN 60825/1.

T H E   L A S E R   W A Y





### • FLEXI DENIM T

- Denim work center
- Single static table
- CCD camera
- Internal laser preview
- Class 1 (full laser safety)
- 4 optical axis galvo-motors scanning based dynamic focusing head
- Control unit: PC Windows™
- Software: Icaro DENIM PRE-INSTALLED

**Dimensions:** 2280 x 1850 x 2900 mm

**Weight:** 1200 Kg

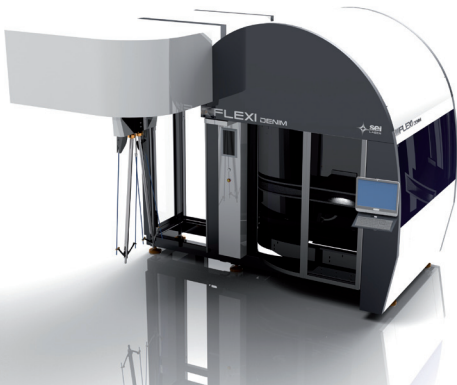


### • FLEXI DENIM 2T

- Denim work center
- Double fast sliding tables
- CCD camera
- Internal & external laser preview
- Class 1 (full laser safety)
- 4 optical axis galvo-motors scanning based dynamic focusing head
- Control unit: PC Windows™
- Software: Icaro DENIM PRE-INSTALLED

**Dimensions:** 4090 x 1850 x 2900 mm

**Weight:** 1500 Kg

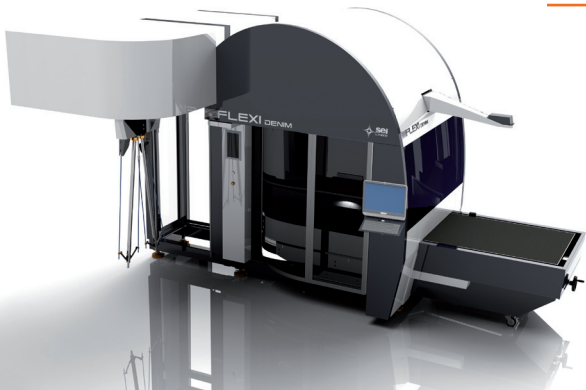


### • FLEXI DENIM 2M

- Denim work center
- Single static table
- Double mannequins
- CCD camera
- Internal laser preview
- Class 1 (full laser safety)
- 4 optical axis galvo-motors scanning based dynamic focusing head
- Control unit: PC Windows™
- Software: Icaro DENIM PRE-INSTALLED

**Dimensions:** 3825 x 3260 x 2980 mm

**Weight:** 2100 Kg



### • FLEXI DENIM 2TM

- Denim work center
- Double fast sliding tables
- Double mannequins
- CCD camera
- Internal & external laser preview
- Class 1 (full laser safety)
- 4 optical axis galvo-motors scanning based dynamic focusing head
- Control unit: PC Windows™
- Software: Icaro DENIM PRE-INSTALLED

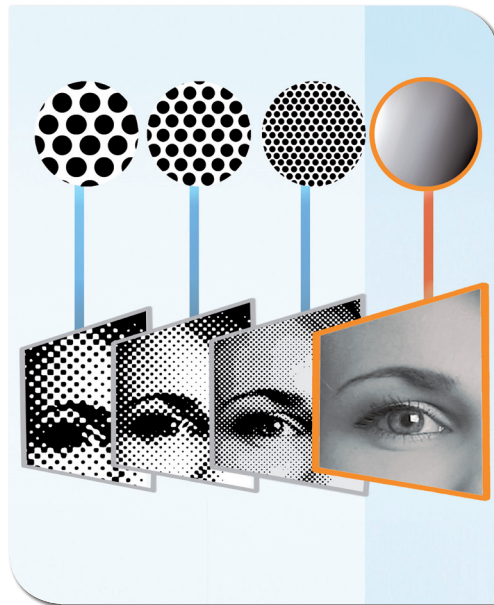
**Dimensions:** 5630 x 3260 x 2980 mm

**Weight:** 2400 Kg





**Flexi Denim** is characterized by its innovative **Icaro Denim** software that enables the management and optimization of laser energy. The benefits are: • Reduction in energy consumption and costs • A throughput of up to 3 times higher



#### ■ HIGH DEFINITION & PRODUCTIVITY

Unrivalled high definition and natural gradation effects by achieving a precise shades even at high speeds.



#### ■ ABS (AUTOMATIC BEAM SIZING)

Beam size is changed by software to achieve different effects.

er than conventional methods and machines • Unrivalled quality with true and natural "used" 3D effects by achieving accurate and precise shades • Extremely intuitive and innovative user-friendly software interface that reduces set-up time to zero.



#### ■ EASY & GUIDED POSITIONING

Garments can be quickly and accurately placed following the step-by-step guided laser preview to optimize loading time and reduce operator errors.



#### ■ SMART IMPORT

"Intelligent" import command with automatic 3D effect enhancement and laser power optimization.



Designs, effects and sizes change are easy and immediate.

**Flexi Denim** is eco sustainable by safeguarding not just the environment but also operators' health. It reduces water wastage dramatically in the final

wash (up to ten times less than required in case of traditional finishing processes) and the use of toxic and chemical substances in the different stages of production, especially during treatments to achieve particular effects on jeans.

**ICARO DENIM**  
FADE

SOFTWARE LIBRARY PROVIDES DIFFERENT LEVEL OF "AGING" EFFECTS ON GARMENTS

**ICARO DENIM**  
VECTOR

VECTOR DRAWINGS (SUCH AS LOGOS) WITH MAXIMUM SPEED

**ICARO DENIM**  
SHARP

RASTER IMAGE WITH MAXIMUM QUALITY

**ICARO DENIM**  
ABRASION

USE SOFTWARE LIBRARY TO EASILY ACHIEVE WEAR MARKS AND CONTROLLED BREAKAGE ON TEXTILE AND DENIM GARMENTS

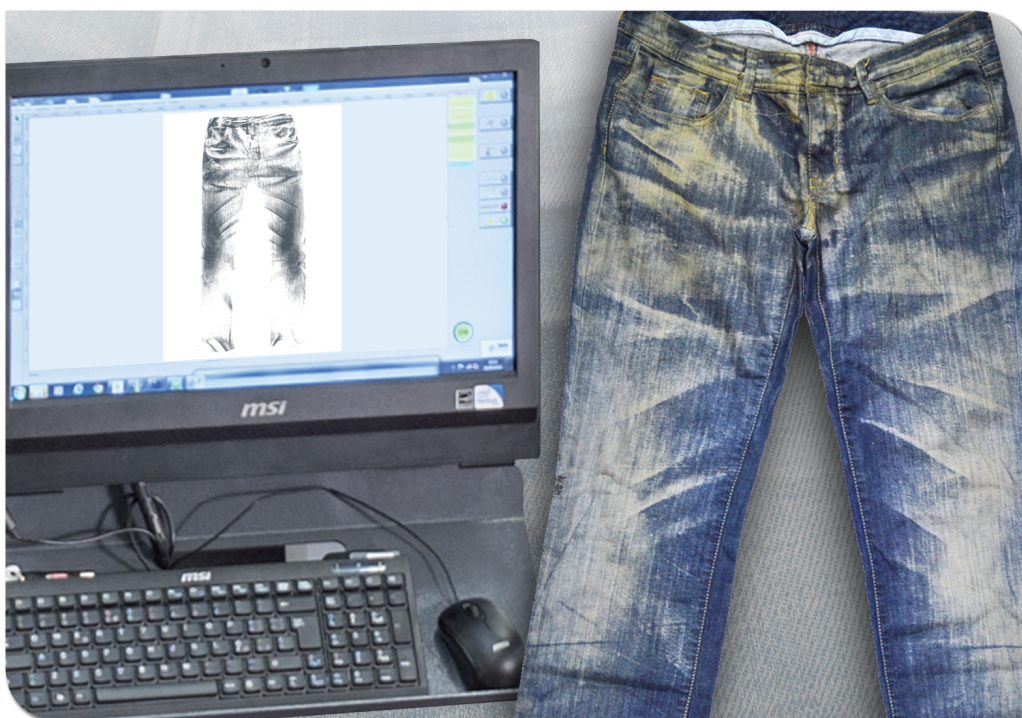
**ICARO DENIM**  
BOOST

RASTER IMAGES WITH MAXIMUM SPEED

**ICARO DENIM**  
DATA BASE

FACTORY EMBEDDED EFFECTS (BRUSH, STRAMO, GRANO, PIED DE POULE)

#### ■ MAIN SOFTWARE FEATURES



#### ■ 100% MONITOR-TO-GARMENT CAPABILITY

Produce super realistic 3D effects as seen on the monitor to achieve the best vintage and used finishing on garments.





Technical features	FLEXI DENIM T	FLEXI DENIM 2T	FLEXI DENIM 2M	FLEXI DENIM 2TM
Laser wavelength (µm)	10,2-10,8			
Laser technology	CO <sub>2</sub> Sealed-off slab RF discharge excited laser source			
Laser cooling	Water with additives (closed loop)			
Scan head technology	4 optical axis galvo-motors scanning based dynamic focusing head			
Working area (mm)	1000x1300			
Productivity (garment/h)	up to 70	up to 170	up to 160	up to 170
Laser scan head protection	IP 54, ZnSe protective window			
Control unit	PC Windows™ with SW Icaro DENIM pre-installed			
Safety norm compliance	CLASS 1 laser system 2006/95/Low Voltage Directive 2006/42/CE Machinery Directive 2004/108/CE Electromagnetic Compatibility Directive IEC EN 60825-1 Laser			



External loading table



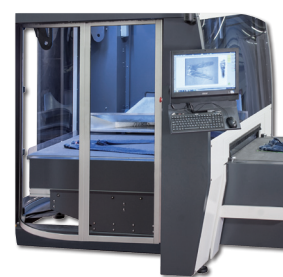
Easy positioning



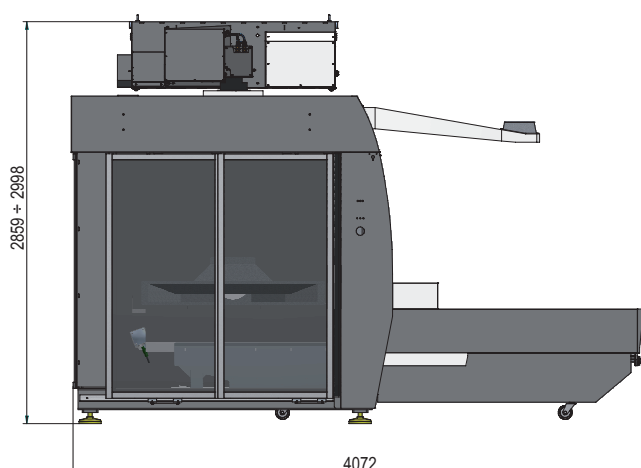
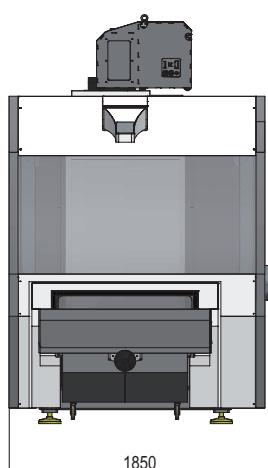
External laser preview projector



Fume suction/extraction



Automatic safety doors



### Main features

- Modular concept
- State-of-the-art laser technology and performances
- Up to 3 times higher productivity compared to conventional methods and machines
- Lower energy consumption costs
- Ecologically sustainable
- Fully digital electronics control
- Unparalleled high definition and natural gradation effects performance
- Easy work processes with intelligent human software interface and functions
- High reliability
- Zero maintenance
- Remote control and diagnostic module included

The product is CE marked.

Features and system requirements may change without notice.

**SEE LASER  
FOR A GREEN**



**NO POLLUTION - NO WATER**

**FLEXI DENIM IS ECO SUSTAINABLE**



converting solutions

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