



**LASER ISSE** | GERMANY  
USA  
TURKIYE

# Customized & Automated **Laser Solutions**

Cutting   Welding   Cleaning   Marking



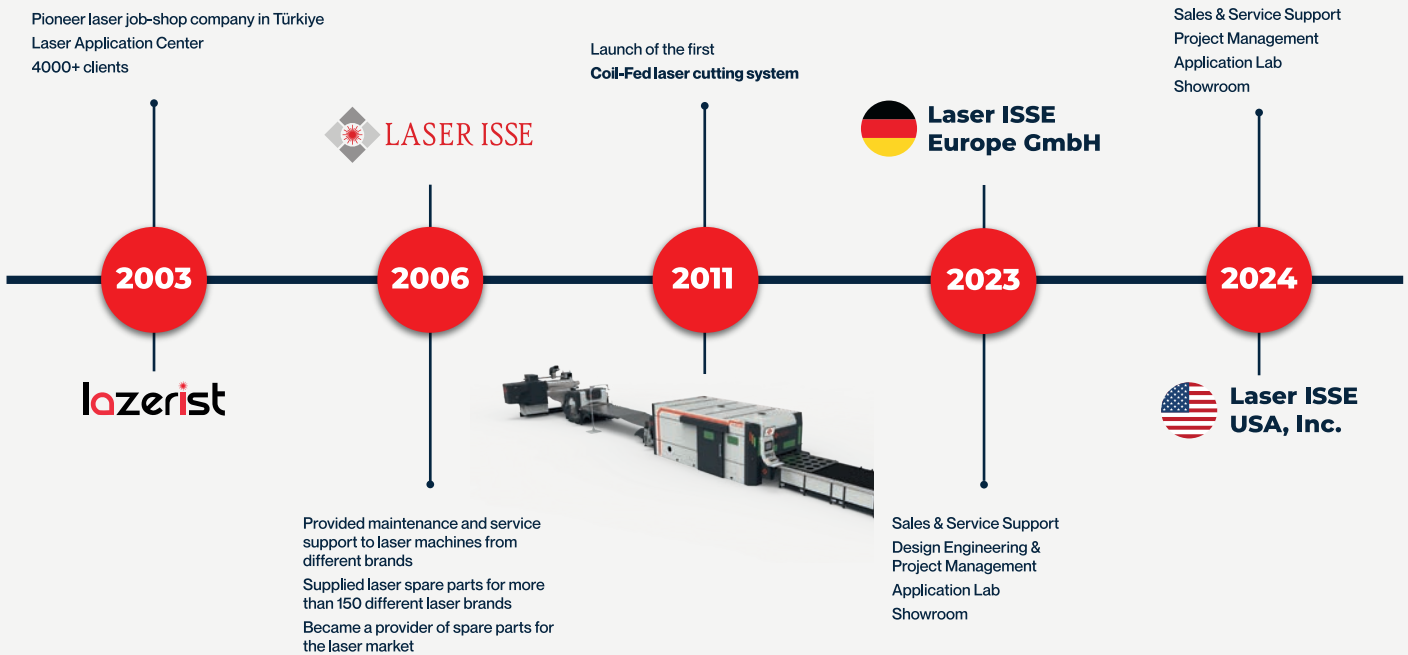
## State-of-the-Art Innovation

Laser ISSE is an Engineering & Automation company which specializes in high-quality laser applications, providing **customized solutions** to over 20 different industries, helping streamline and optimize their production processes.

At Laser ISSE, we deliver innovative systems and solutions from initial project design to final installation. Our comprehensive services are flexible and supported by dedicated experts to meet your specific needs. We also provide creative mentoring to help clients develop effective strategies for improving **production efficiency**.

## Innovative Solutions for Sustainable Efficiency

### Milestones



**20+** Years  
Laser Experience

Solutions to  
**23** Industries

**150+**  
Employees

**220+** Different  
Laser Applications

**1800+** Laser  
System Installation

Exported to  
**60** Countries



# Laser Cutting

# Coil Fed Laser Blanking

## ONE Line, TWO Solutions



Watch Video

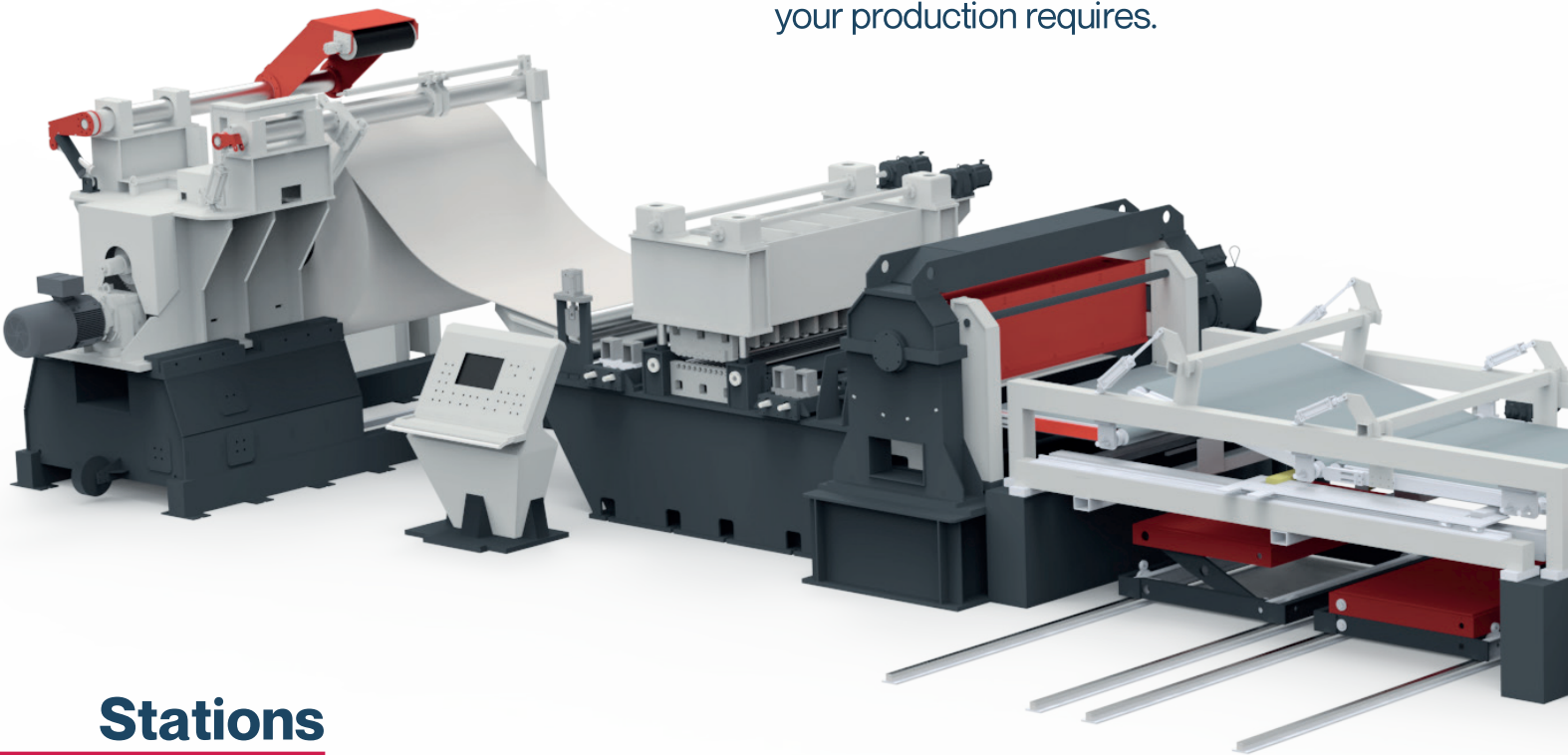
The Blanking Line cuts all your custom blanks directly from the coil with our turnkey solutions by utilizing automation for feeding, leveling, cutting and stacking.

### Shear Cutting

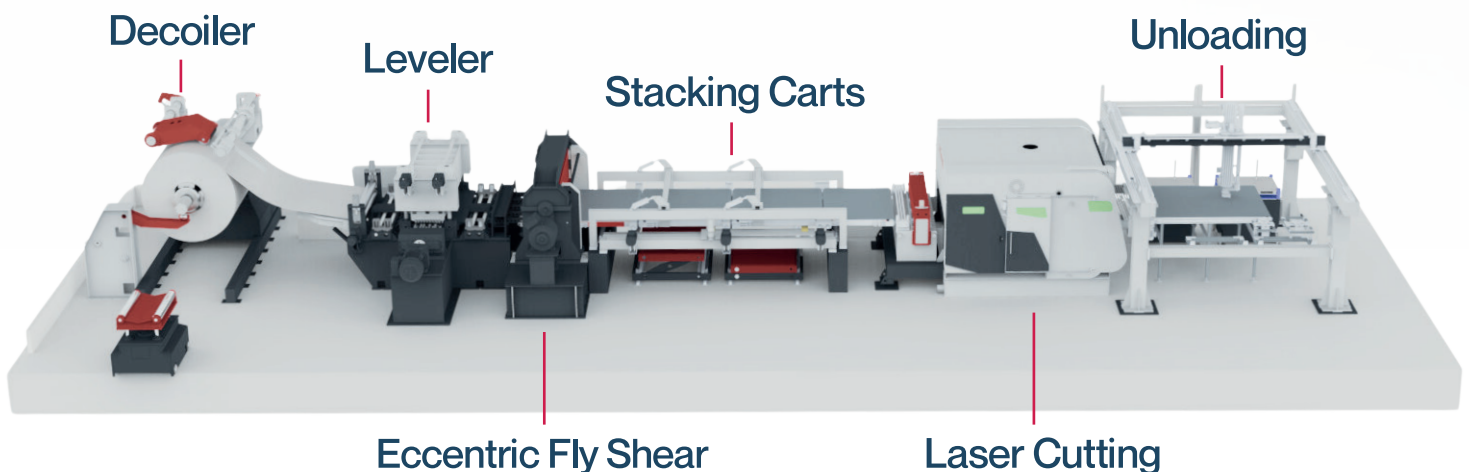
Provides rapid cutting of blanks at any size.

### Laser Cutting

Offers high-speed cutting for straight lines, trapezoids, or any other blank shapes that your production requires.



## Stations



## Customize your Laser Blanking by

Cone Type Decoiler

Double Head Decoiler

4 or 6 High Leveler

Compact Straightener

Shear

Stacking Station

Servo Feeder

Multi Head & Bridge

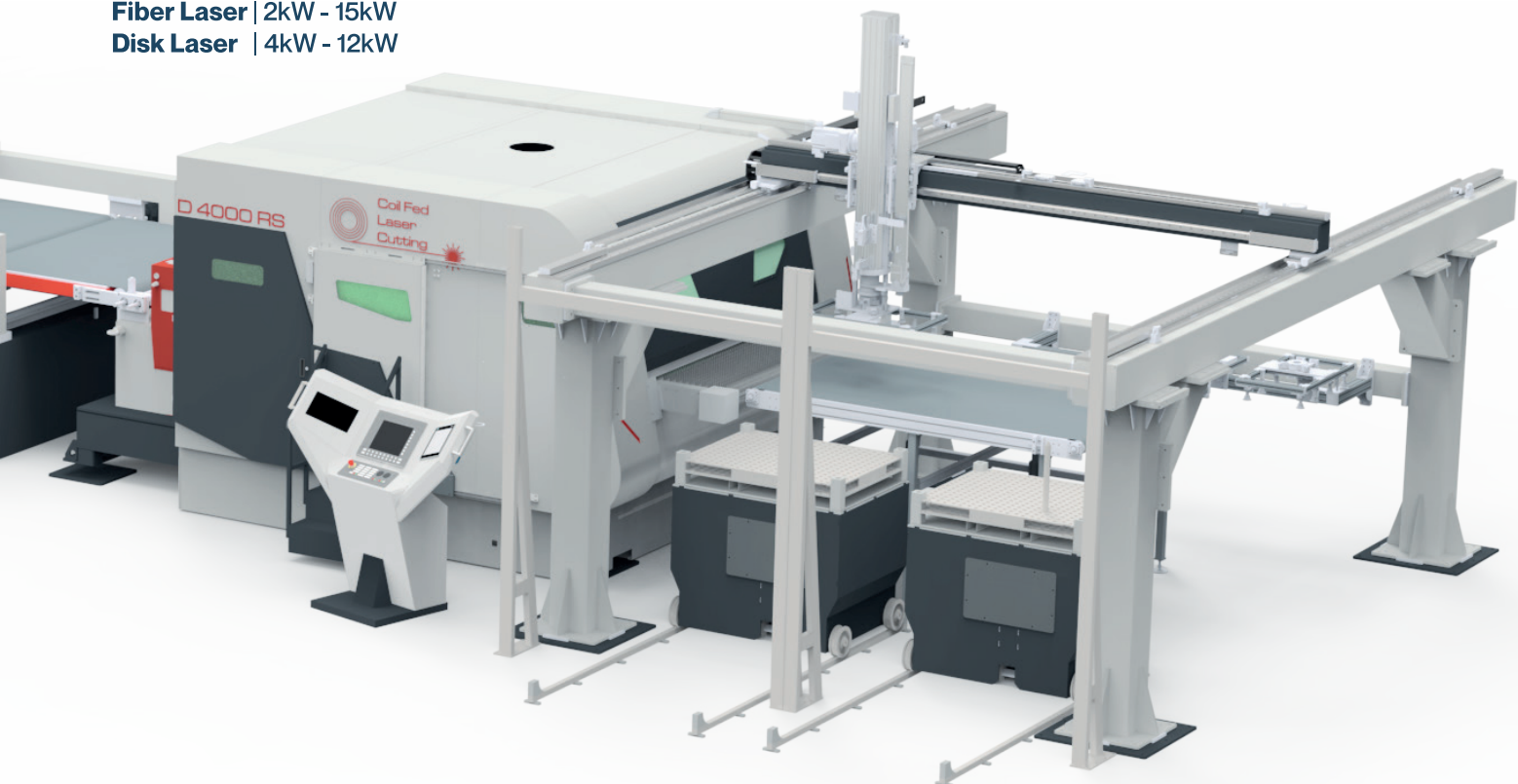
Laser Marking Unit

Articulated or Gantry Robot Unloading

## Laser Power

Fiber Laser | 2kW - 15kW

Disk Laser | 4kW - 12kW



## Sectors

Automotive  
HVAC  
Kitchenware

Cutlery  
Industrial Kitchens  
Home Appliances

Shelving & Display  
Steel Service Center  
Lockers & Cabinets

Construction Tools  
Silos  
Steel Tanks

# Coil Fed Laser Cutting Lines



Watch Video

## Laser Blanking Advantages

- Less scrap with continuous cutting and nesting
- Elimination of die costs changeovers, maintenance
- Reduced floor space requirements for raw materials
- Multi-material processing abilities
- Lower energy consumption
- Customized cutting bed sizes
- Clean-edged, precise, repeatable cutting process
- Less footprint and lower building costs
- Stop or "on the fly" cutting



## Technical Specifications

| Decoiler Capacity    | Coil Width                       | Material Thickness             |
|----------------------|----------------------------------|--------------------------------|
| 5 - 32 Tons          | 20mm - 2150mm<br>(.78" - 84.6" ) | 0.3mm - 6mm<br>(.012" - .23" ) |
| Drive System         | Laser Source                     | Laser Power                    |
| Servo / Linear Motor | Trumpf / IPG / Coherent          | 2kW - 15kW                     |
| Working Area         | Cutting Head                     | CNC                            |
| Custom-made          | Precitec                         | Siemens / Fanuc / Beckhoff     |

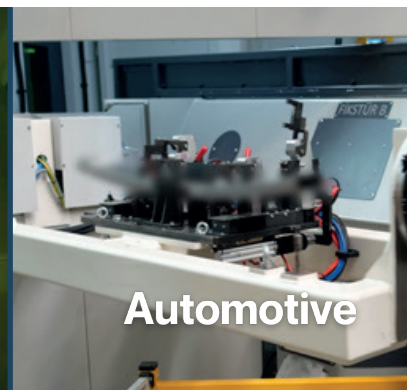
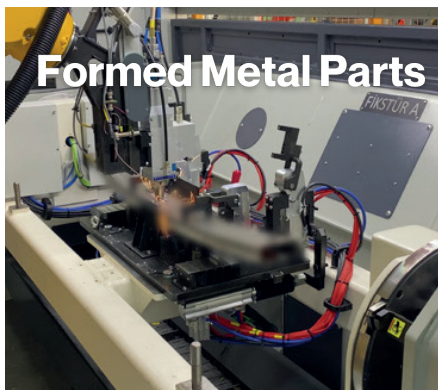
# Robotic Laser Cutting



Watch Video

- Customization
- Positioners
- Fixture Design
- Offline Programming
- Laser Safety Cell

## Increased Productivity through Robotic Automation



# High Precision MICRO CUTTING SOLUTIONS



Watch Video

Precision Redefined  
Accuracy Delivered

Convertible  Coil Fed Laser Blanking

## Options

- Custom Design Fixture
- Automatic Nozzle Cleaner
- Slatted Conveyor for Scrap
- Automatic Nozzle Changer
- Fume Extractor
- Purpose-Built Clamping

## Features

- High Precision Linear Encoders
- HEAD-Controller
- Slag Position Recognition
- Manual / Auto Slider Table
- Fly Cut
- Integrated CAM Software
- Granite or Cast Base
- Multi-Touch HMI
- Sheet Edge Detection

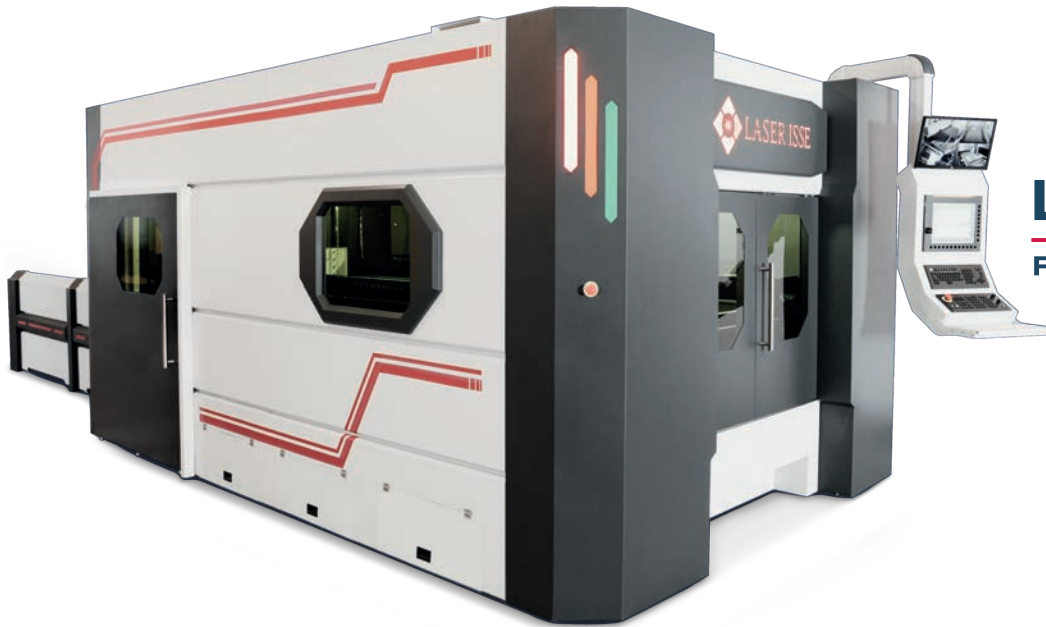
## Technical Specifications

| Laser Cutting Table       | 600x600 mm           | 1000x1000 mm | 1250x1250 mm        |
|---------------------------|----------------------|--------------|---------------------|
| Laser Power               | Positioning Accuracy |              | Acceleration        |
| 1kW - 4kW                 | $\pm 25 \mu\text{m}$ |              | 24 m/s <sup>2</sup> |
| Jog Speed                 | CNC                  |              | Repeatability       |
| $\leq 250 \text{ m./min}$ | BECKHOFF             |              | $< 10 \mu\text{m}$  |

# High Speed 2D LASER CUTTING SOLUTIONS



Watch Video



## Laser Power

Fiber Laser | 2kW - 20kW

## Options

- Automatic Nozzle Changer
- Nozzle Beam Centering
- Slatted Conveyor
- Fume Extractor
- Automated Unloading
- Customized Cutting Bed

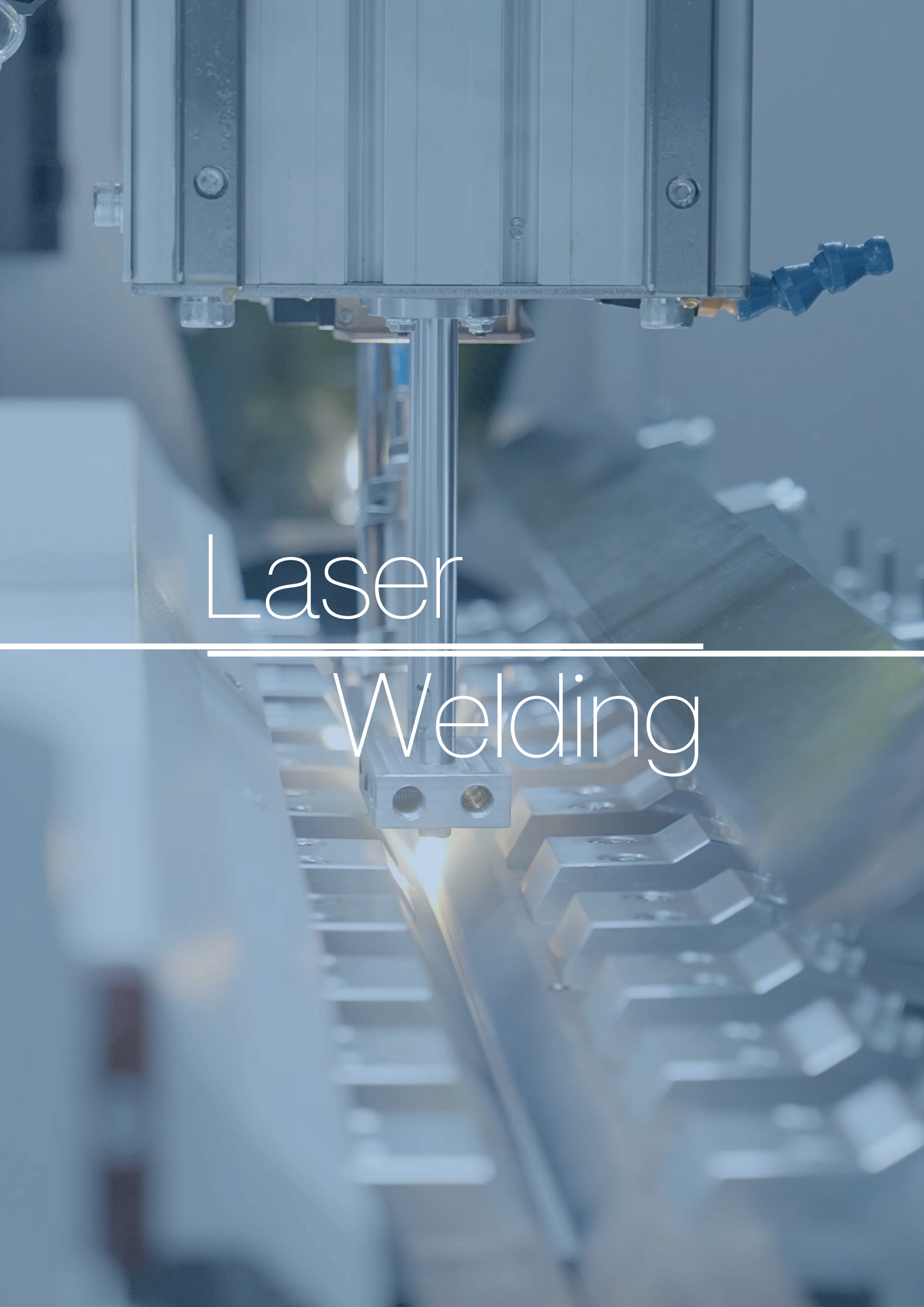
## Features

- Real Time Simulations
- Internal Monitoring Cameras
- Sheet Edge Auto-Detection
- Multi-Touch HMI
- Anti-Collision
- Fly Cut
- Remote Access
- Lift Up - Down Shuttle Table
- Automatic Nozzle Cleaner

## Technical Specifications

Technical data is subject to change without prior notice.

| Models                  | 3015                       | 4020         | 6020                | 8020         |
|-------------------------|----------------------------|--------------|---------------------|--------------|
| Working Area            | 3000x1500 mm               | 4000x2000 mm | 6000x2000 mm        | 8000x2000 mm |
| Laser Power             | Positioning Accuracy       |              | Max. Acceleration   |              |
| 2kW - 20kW              | $\pm 50 \mu\text{m}$       |              | 20 m/s <sup>2</sup> |              |
| Max. Jog Speed          | CNC                        |              | Repeatability       |              |
| $\leq 240\text{m./min}$ | FANUC / SIEMENS / BECKHOFF |              | $< 20 \mu\text{m}$  |              |



# Laser Welding

# Safety First

## Protect before Project

These powerful beams of light are used in numerous applications in industrial manufacturing. However, with great power comes great responsibility.

The intense light can cause severe eye injuries, including permanent blindness and skin burns. Moreover, scattered or reflected beams can be just as dangerous as direct exposure. This is why it is crucial to have robust safety measures in place before operating any laser equipment.

**Laser ISSE cells** are produced in accordance with **IEC 60825-1** standards by using **Lasermet** laser safety equipment, which makes them **Class 1 Laser Safety Cells**.



# FULLY AUTOMATED COIL TO CHIMNEY PRODUCTION LINE



Watch Video



Fully-Automated production of high-quality tubes & pipes with a **thickness of up to 3 mm**. Laser ISSE provides incredibly adaptable automated pipe production lines that can simultaneously handle **decoiling, roll-forming, and welding**.

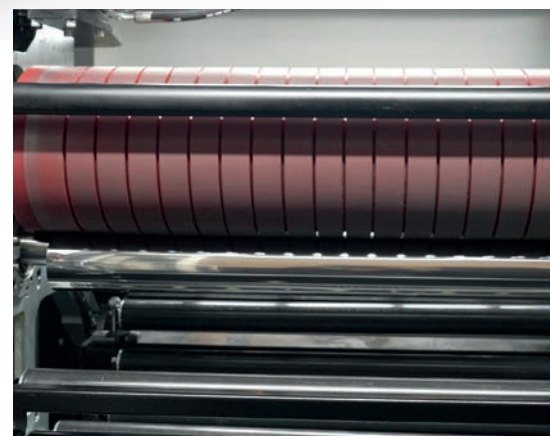
This solution converts pipes of various sizes and materials through several interconnected processes into finished pipes suitable for further processing.

Fully-Automated manufacturing lines offer **flexible and efficient round and oval tube production**, enabling businesses to stay competitive. It's an ideal solution for production of medium and large batch sizes.

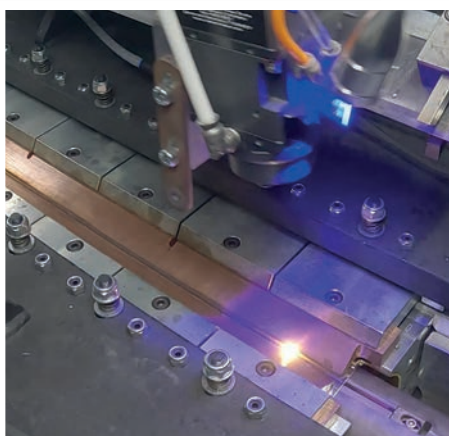
## Outer Case Cylinder Tube Pipe



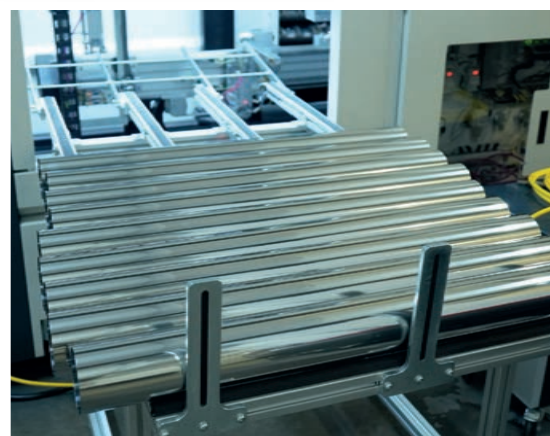
Shear  
Feeder



① ROLL-FORMING  
STATION



② LONGITUDINAL  
LASER WELDING



③ STACKING  
UNIT

## Specifications

Diameter Range  
78 mm - 710 mm

Tube Length  
250 mm - 1500 mm

Material Thickness  
0,4 - 3,0 mm

Material  
SS, MS, GI, AL

## Options

End Forming : Expanding - Flanging - Beading - Stamping

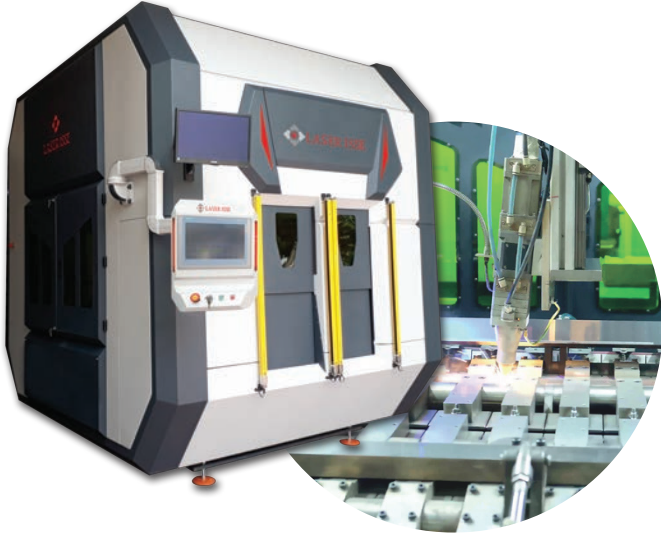
Marking Unit

Automated Transfer to Next Process

## Tube Welding Cell



Watch Video



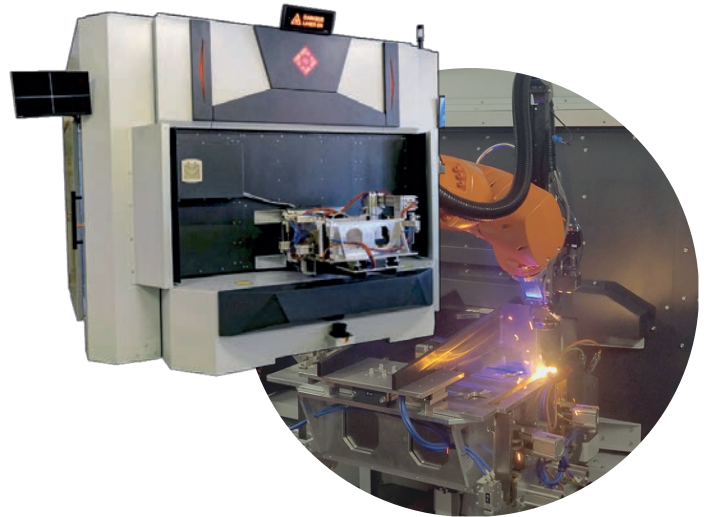
### Features

- 3 Axis Translation Stages
- Twin Station Clamping Devices
- Robust Rigid Body
- Low Cost Maintenance
- Custom Design HMI
- Different Tube Diameters

## Rotary Indexing Welding Cell



Watch Video



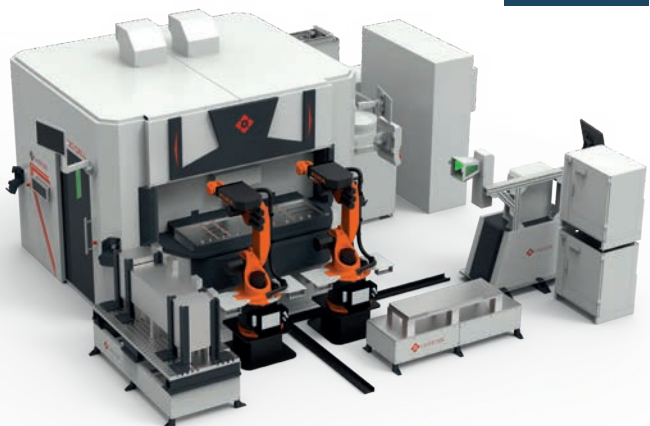
### Features

- Class 1 Laser Safety
- High-Precision Indexing Table
- Optional Process Monitoring
- Offline Programming
- Custom Design Fixtures
- Welding of Various Metal Types

## Tailored Blank Welding Solutions

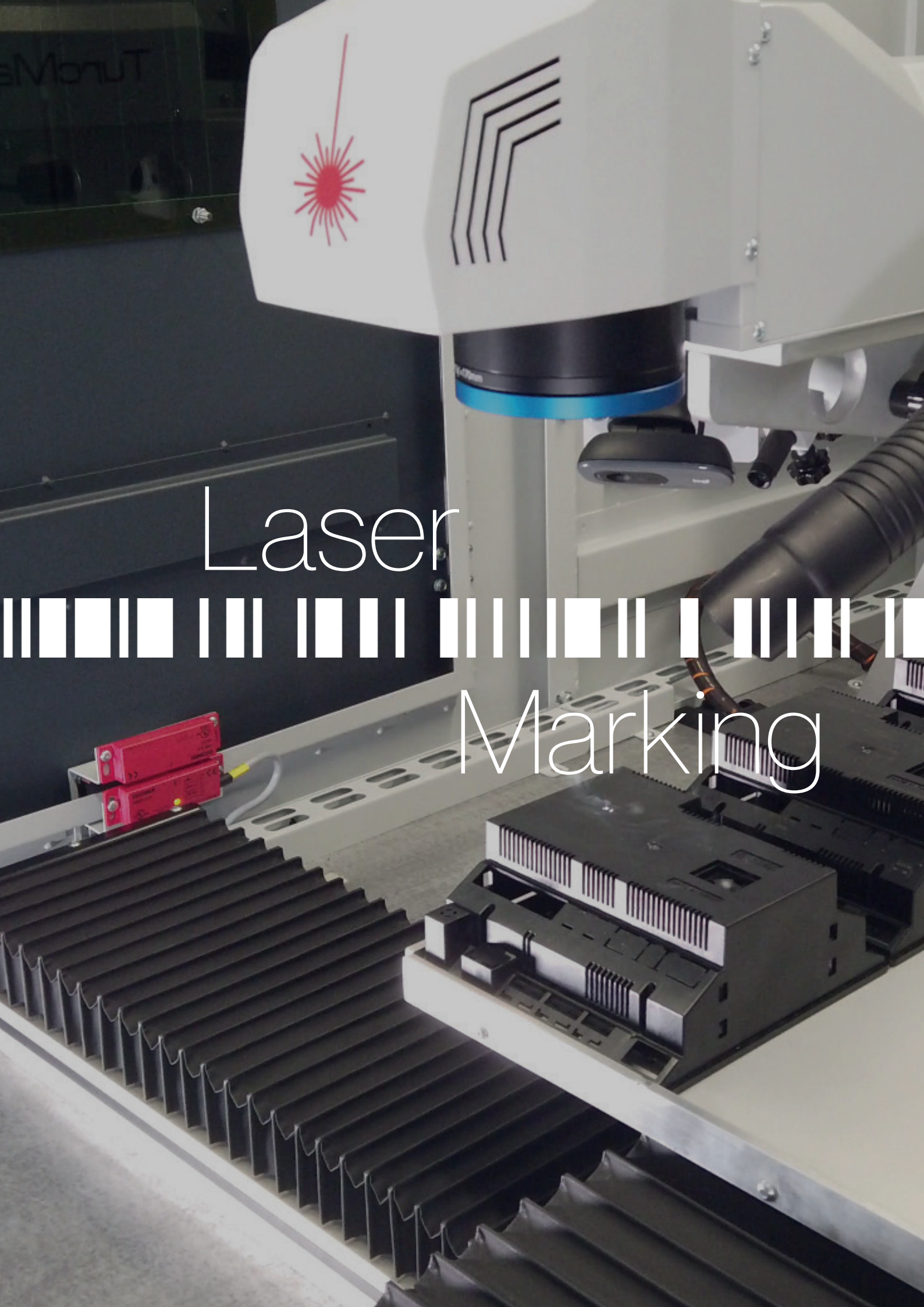


Watch Video



### Features

- Integrated Seam Tracking Sensor
- Reduced Floor Space Requirements
- <2 Sec Part Loading
- 6 DOF Flexibility
- Angled Welding Line Possibility
- Fixture Integrated Exhaust System
- Custom Design Fixtures
- Optional Process Monitoring



Laser

Marking

# Your Benchmark for **Standard** Laser Marking Excellence

[Watch Video](#)

## CLASS 1

### FREESTANDING UNIT



# CLASS 1

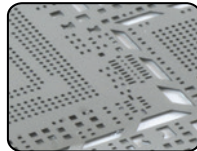
## FREESTANDING TURNTABLE UNIT



## Metal Engraving



## Plastic Marking



## Micro Cutting



## 2D - 3D Engraving

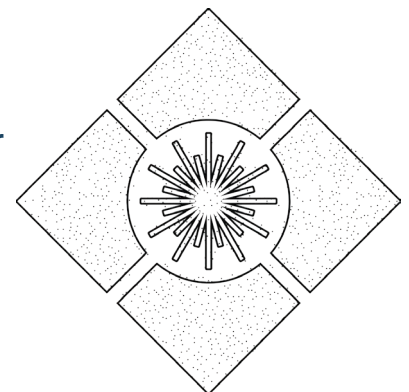


## Traceability Marking

| Laser Source     | Power Range | Marking Field              | Cooling System |
|------------------|-------------|----------------------------|----------------|
| Fiber - UV - CO2 | 3W - 2000W  | 50 x 50mm to 1200 x 1200mm | Air or Water   |

## Features

- Remote Assistance
- User Friendly HMI
- No Consumable Parts
- 3D Part Marking & Engraving
- Windows Based Controller
- OPC UA Communication
- Integrated QC System
- C-Axis Integration



## Invisible Coding



## Twin Station Multi-Axis



## Robotic Laser Marking



## 7 Axis Mobile System

## Features

- Robotic Integration
- Rotary Indexing Table
- I/O Connection Support
- Integration to Built-in Line
- Camera Integration
- Product Based Software



## Advantages



## Non-Contact Process



## Traceability



## SAP, MES Communications



## Automation Possibilities



## Cost Effective



## High-Precision Process



## Eco Friendly



## No Consumables



## Fast Application, Robust Results



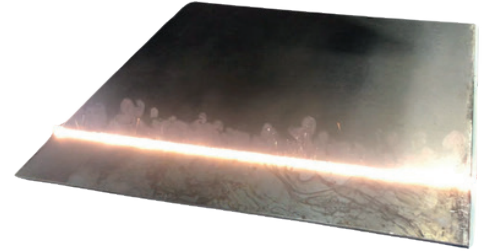
Laser

Cleaning

# The Future of Surface Ablation

## Eco Friendly

Laser cleaning is an innovative technology that removes contaminants, rust, coatings, and other unwanted materials from surfaces without physical contact or environmental harm.



## Advantages



NON - CONTACT  
PROCESS



AUTOMATION  
POSSIBILITIES



NO  
CONSUMABLES



HIGH-SPEED  
PROCESS



COST  
EFFECTIVE



MINIMAL THERMAL  
EFFECT



HIGH-PRECISION  
PROCESS



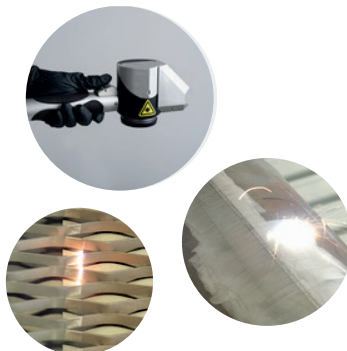
FAST APPLICATION  
ROBUST RESULTS

## Handheld Cleaning

### Anytime, Anywhere



Watch Video



Ergonomic Design  
Continuous Operation  
Multiple Parameter Settings  
Adjustable Scanning Modes  
Lightweight for Extensive Use  
No PC Requirement  
Touch Screen Customized HMI

Handheld Device can be used as a Standard Engraving System with Z-Axis



ARTIFACT  
RESTORATION



MOLD  
CLEANING



CONTAMINATION  
REMOVAL



AEROSPACE  
PARTS CLEANING



WELDING & COATING  
PRETREATMENT



FACADE & FASCIA  
CLEANING



SURFACE  
PREPARATION



RUST  
REMOVAL



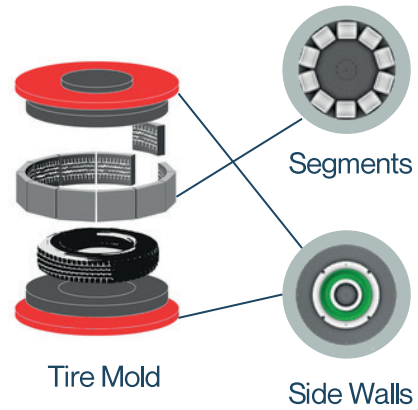
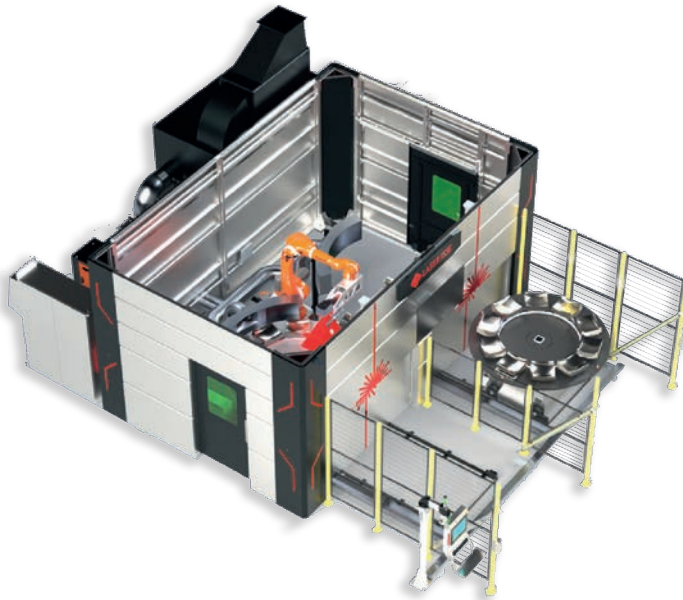
PAINT  
REMOVAL



## Twin Station Laser Cleaning Tire Mold Cleaning Cell



Watch Video



Passenger Car



Light Truck



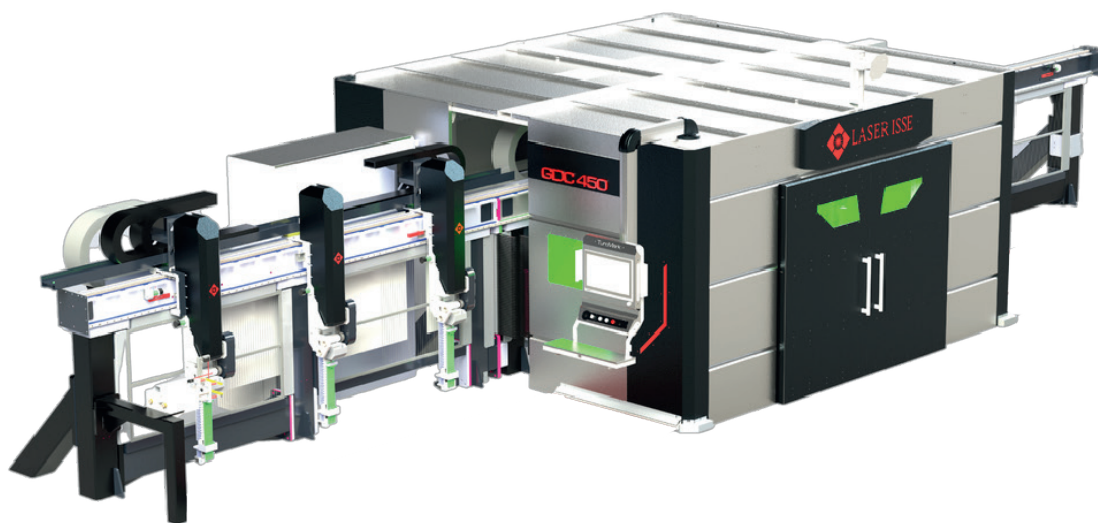
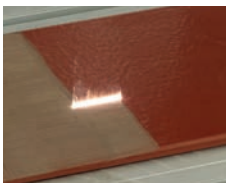
Truck

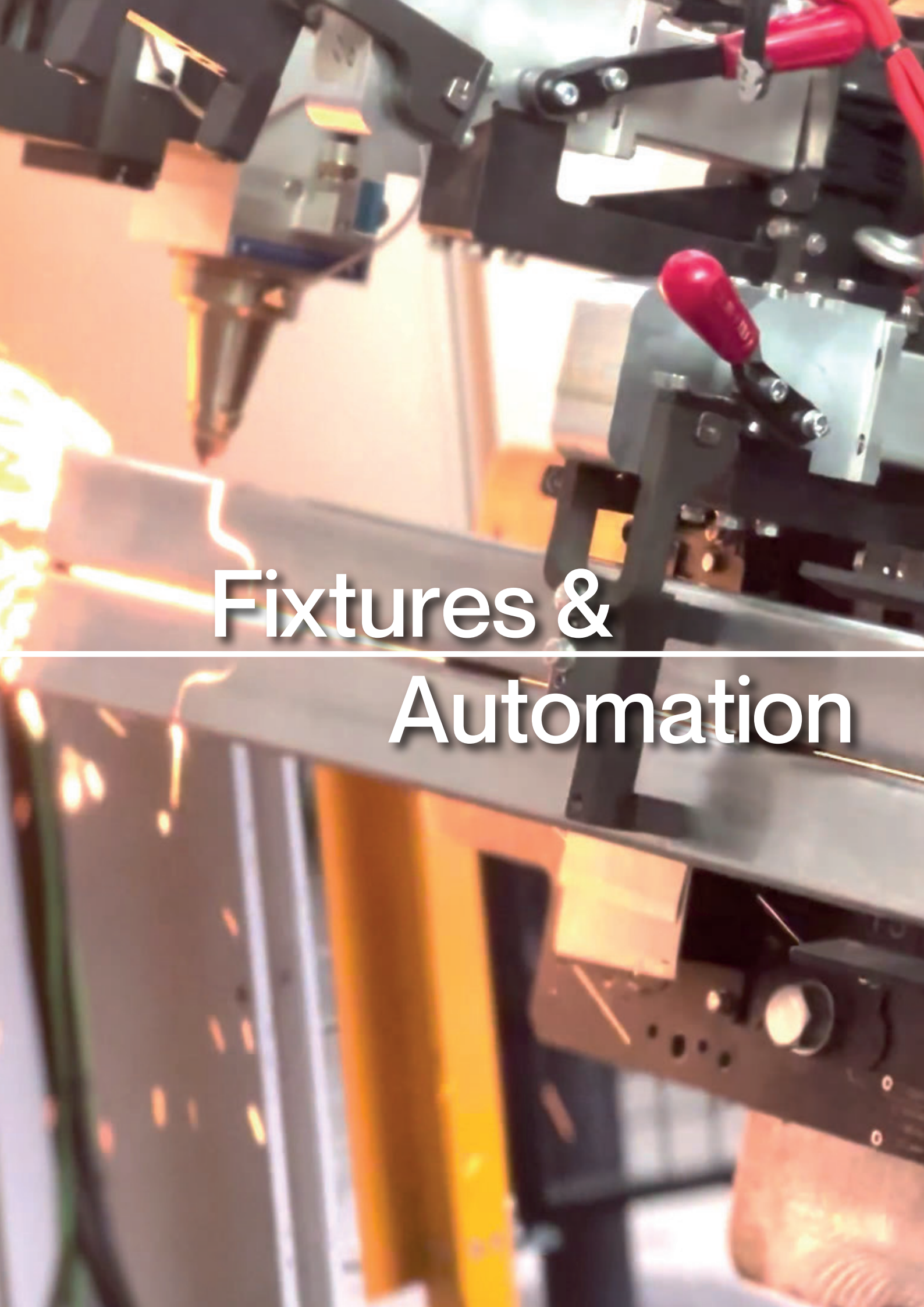
Wide Range of Work Capability

## C450 GDC Busbar Epoxy Cleaning



Watch Video

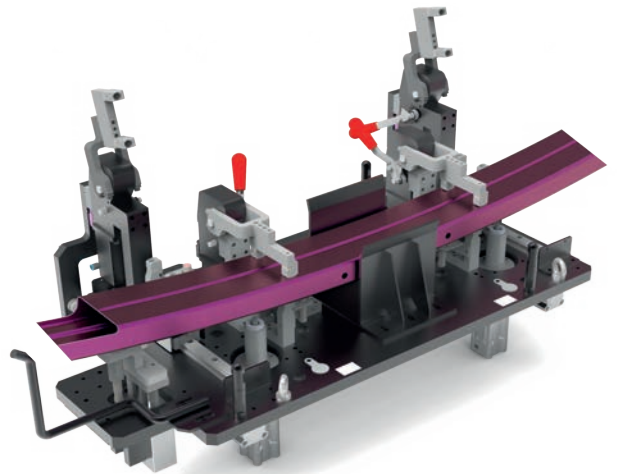


A close-up, high-angle shot of an industrial laser cutting machine. A bright orange laser beam is visible, cutting through a metal plate. Sparks are flying from the cut. The machine's components, including a red-handled lever and various metal parts, are visible in the background.

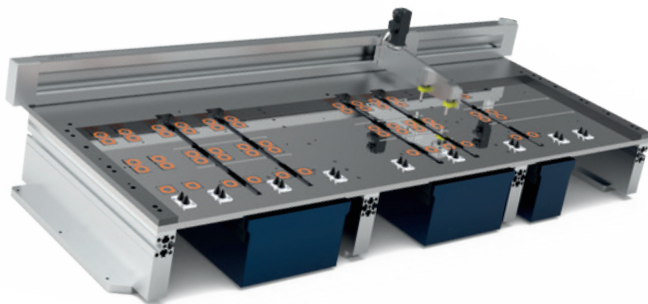
# Fixtures & Automation

## Cutting Fixture

Adaptive Clamps for Accurate Cutting Path  
Destaco / Tünkers Power Clamps  
Fixture Grounding Pins  
Internal Exhaust  
Fixture Identification  
Calibration Ball



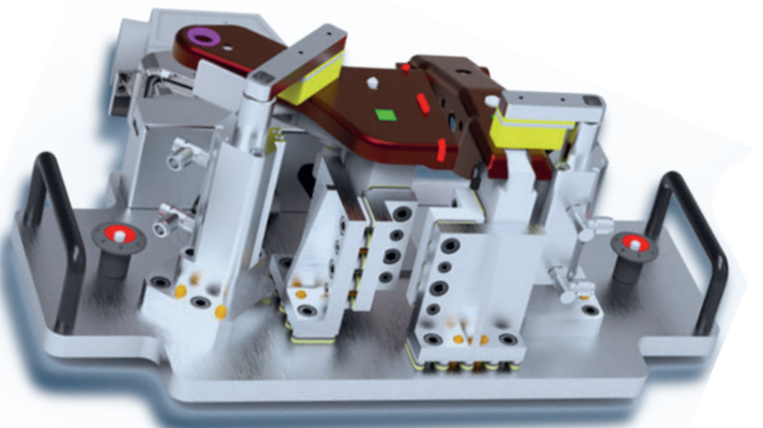
## Welding Fixture



Adaptive Clamps  
Gap Checkers  
Part Measurement  
POKA-YOKE  
Electro-Magnets  
Servo-Driven Universal Fixture  
Laser Welding Requirements  
Communication between Cell and Fixture

## Marking Fixture

Automatic Clamping  
Fast Replacement for Marking Process  
Marking & Cleaning Process  
One Coupling for Air/Electricity  
Lightweight

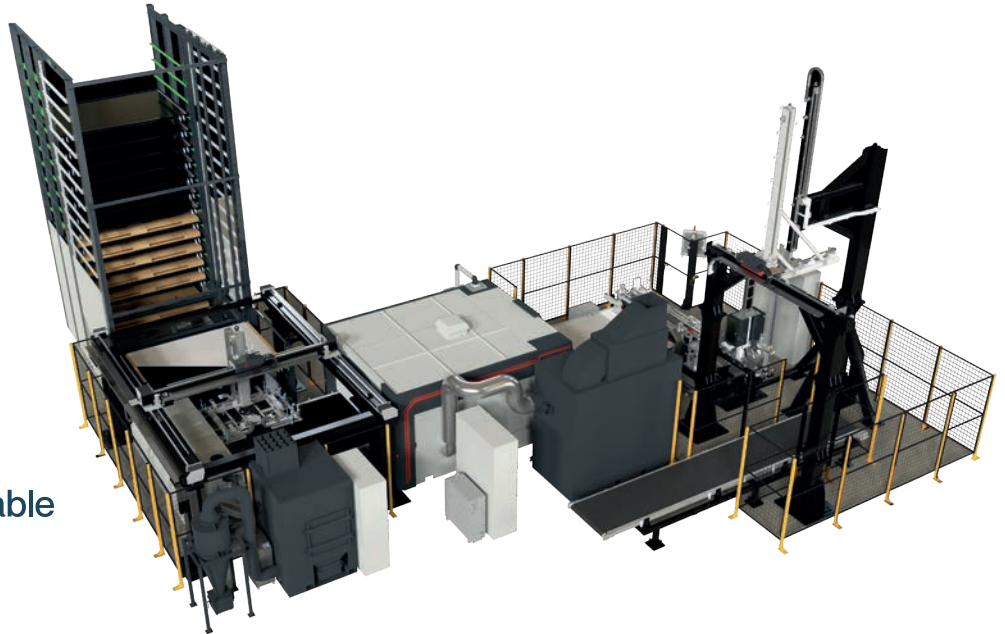


# Boiler Jacket

Production Line (ABS Plastic or Metal)

## Steps

- 1 - Stacking
- 2 - Transfer
- 3 - Laser Cleaning
- 4 - Laser Cutting
- 5 - Laser Marking
- 6 - Automated Rolling
- 7 - 2 Stations Rotary Table
- 8 - Welding
- 9 - Unloading

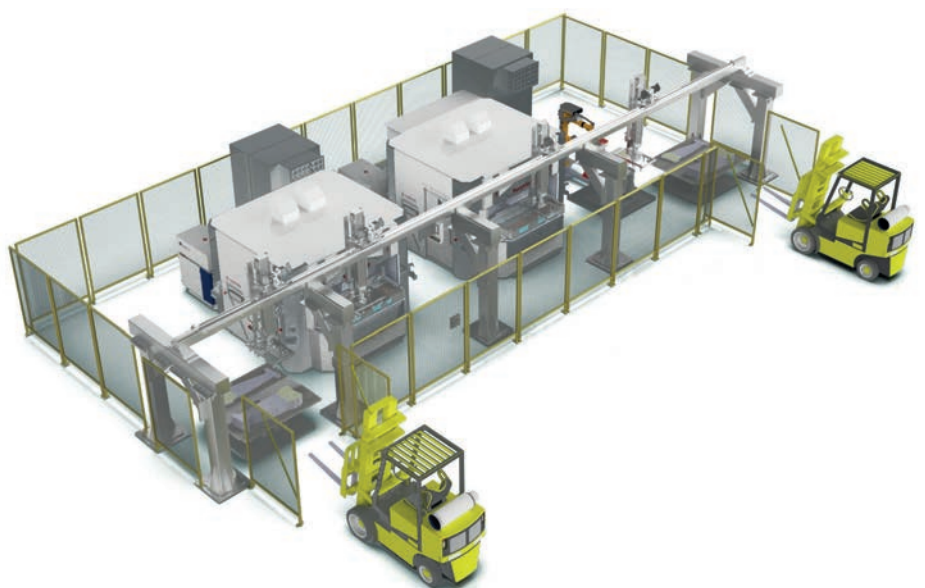


# Tailor Welded Blank

Automated Production Line

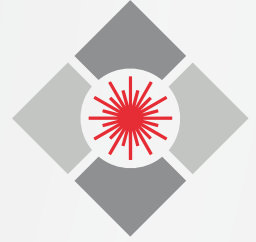
## Steps

- 1 - Loading
- 2 - Ablation or Wire Feeding
- 3 - Welding
- 4 - Marking
- 5 - Quality Control
- 6 - Unloading



Transform your methods with automated laser solutions.

# All Laser Solutions Under One Roof



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