



LASER ISSE | GERMANY
USA
TURKIYE

GENERAL CATALOGUE / 2026

Customized & Automated **Laser Solutions**

Cutting



Welding



Cleaning



Marking



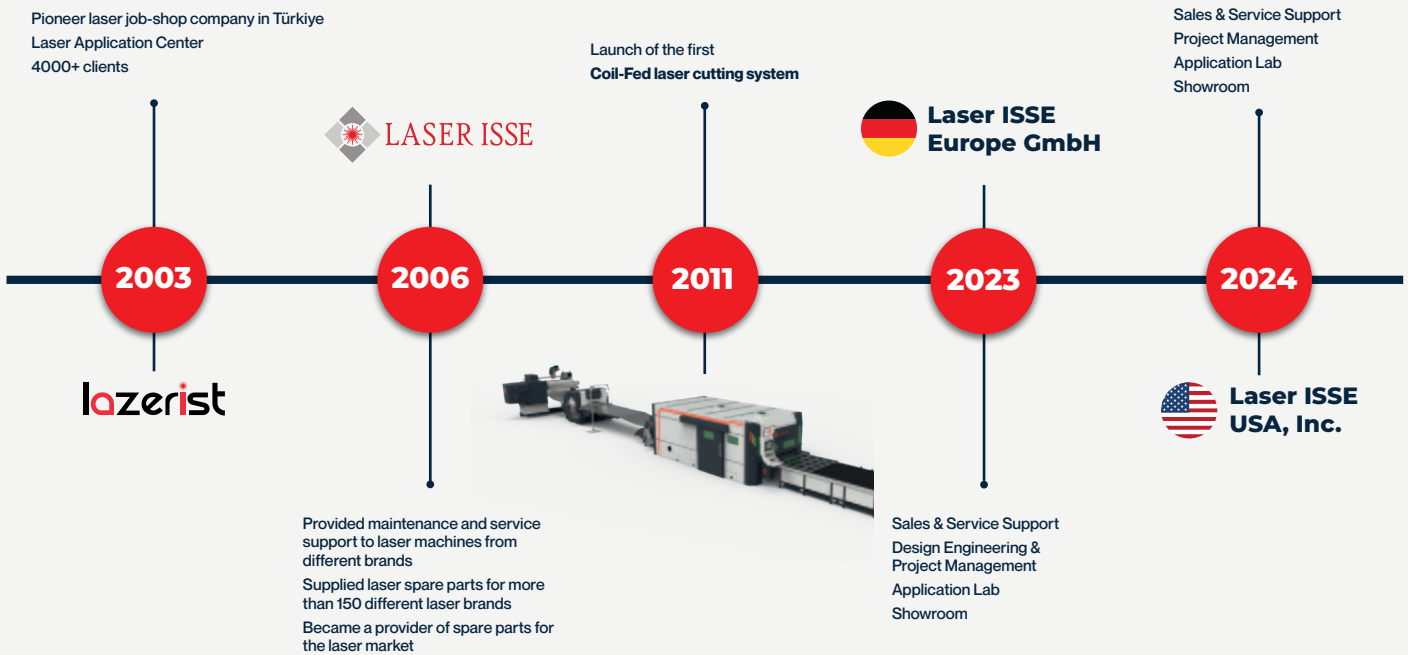
State-of-the-Art Innovation

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

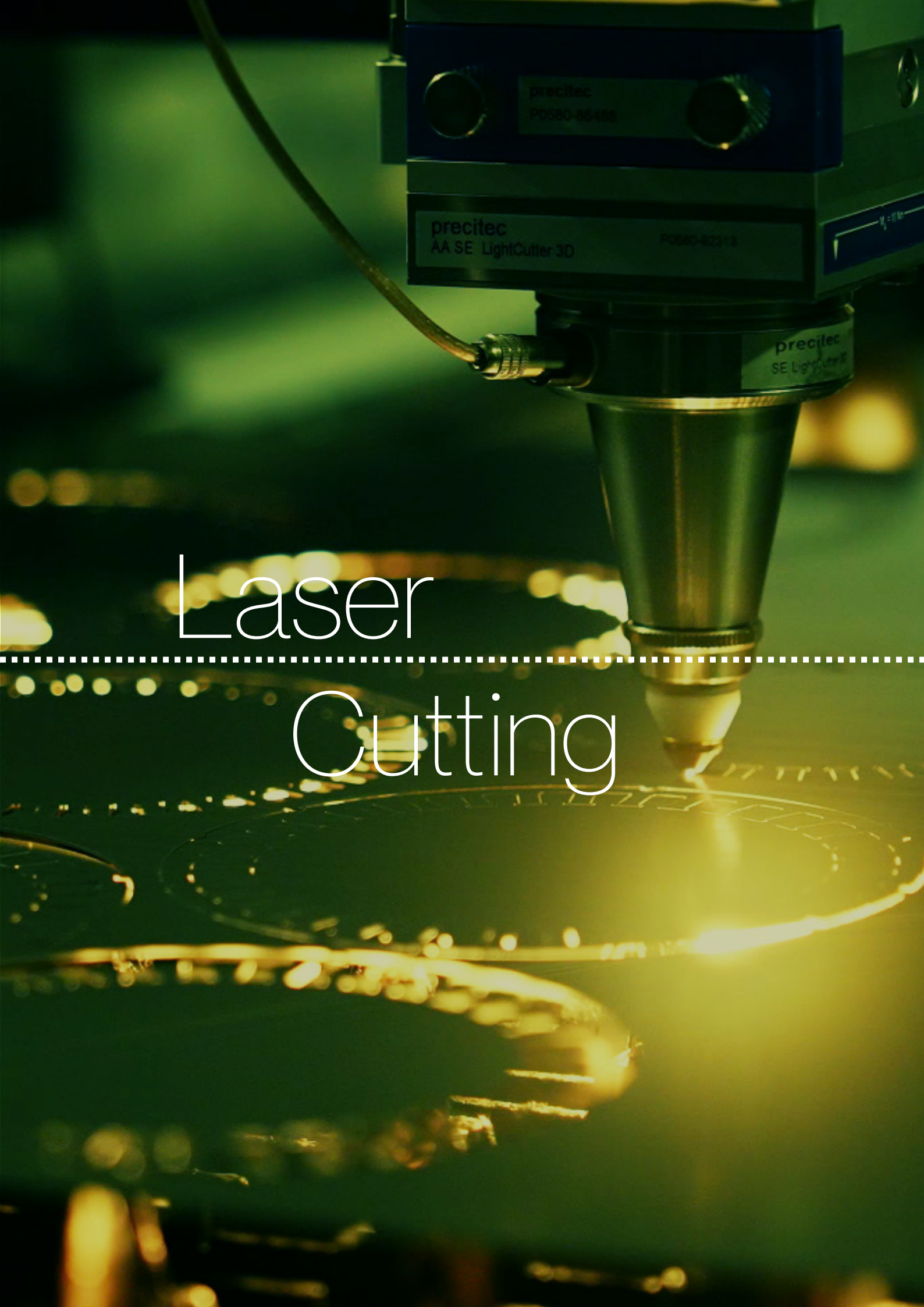
Solutions to
23 Industries

150+
Employees

220+ Different
Laser Applications

1850+ Laser
System Installation

Exported to
60+ Countries



Laser Cutting

Coil Fed Laser Blanking

ONE Line, TWO Solutions



Watch Video

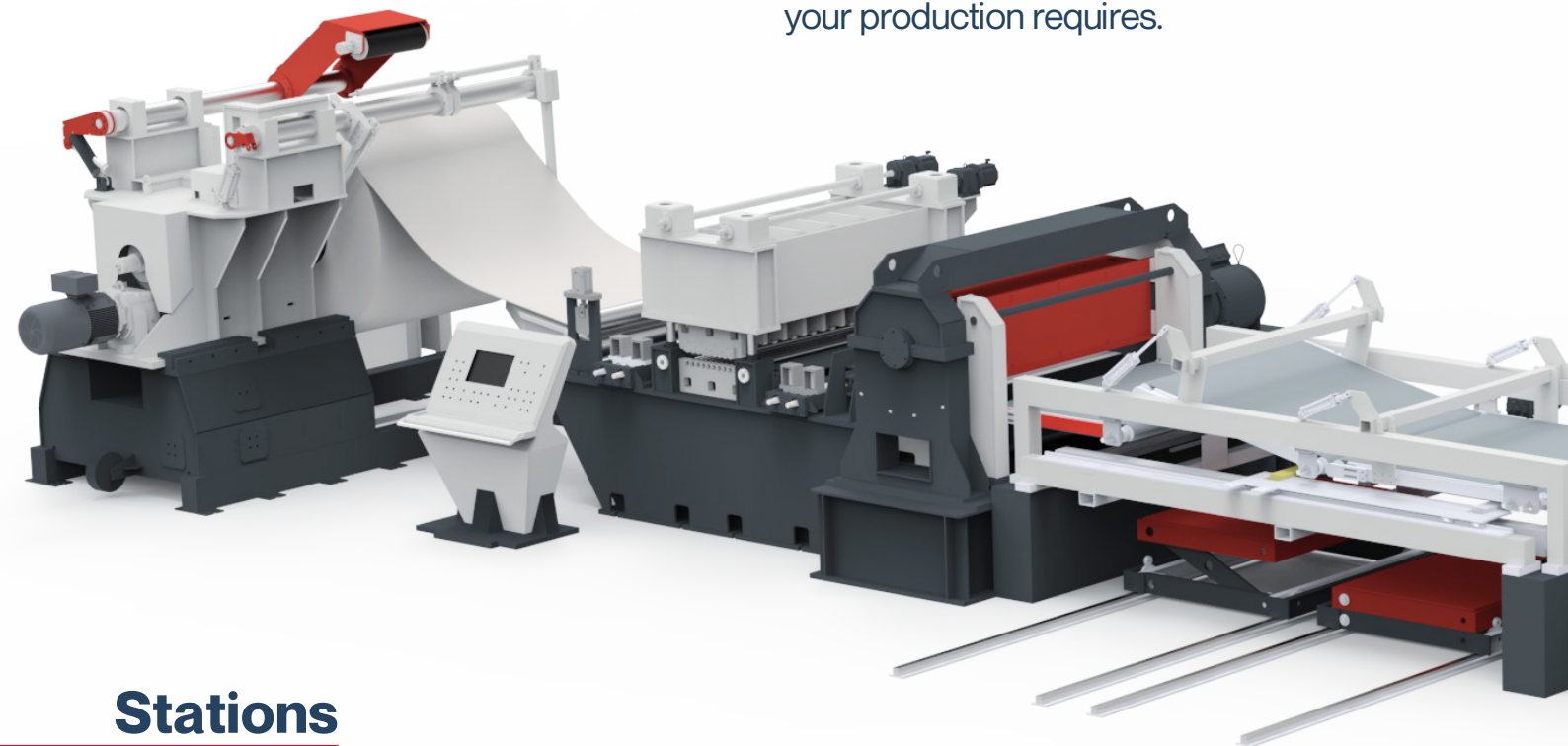
The Blanking Line cuts all your custom blanks directly from the coil with our turnkey solutions by utilizing automation for feeding, leveling, cutting and stacking.

Shear Cutting

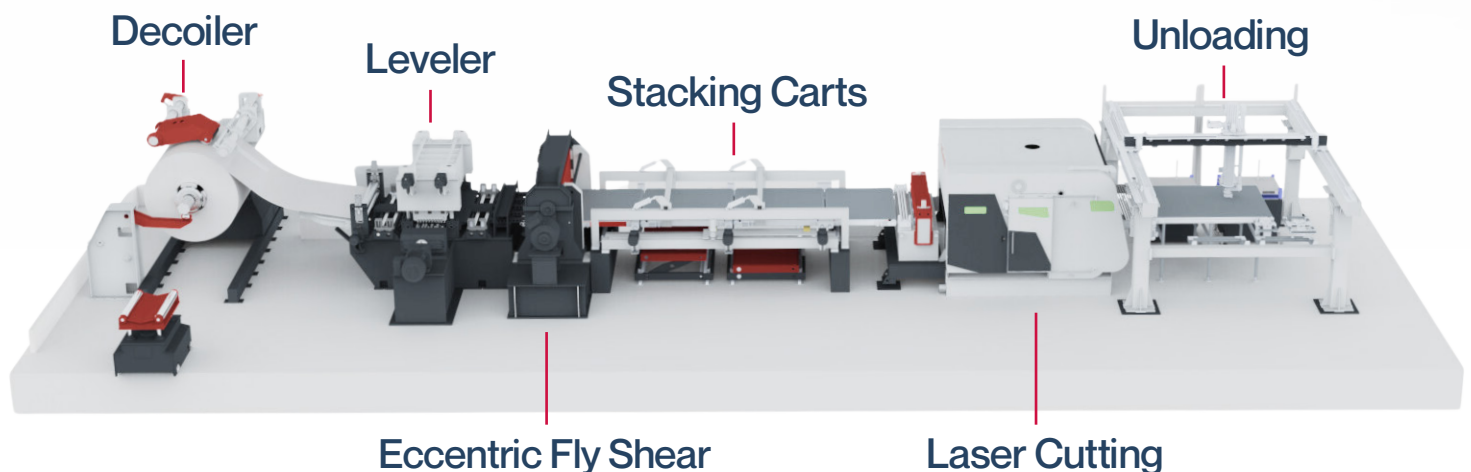
Provides rapid cutting of blanks at any size.

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 (.78" - 84.6")	0.3mm - 6mm (.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

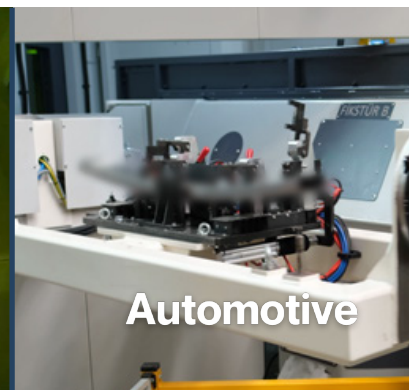
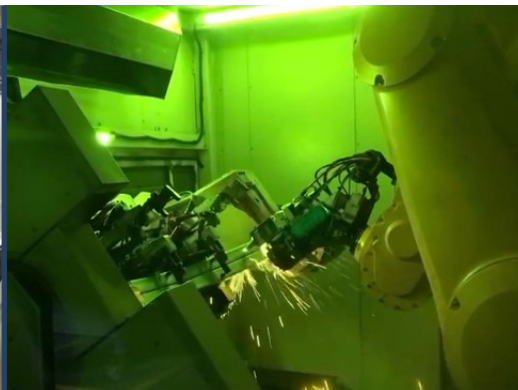
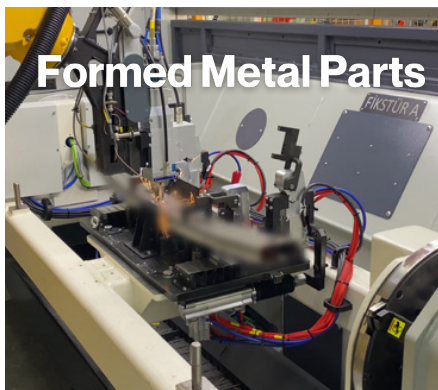
Robotic Laser Cutting



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

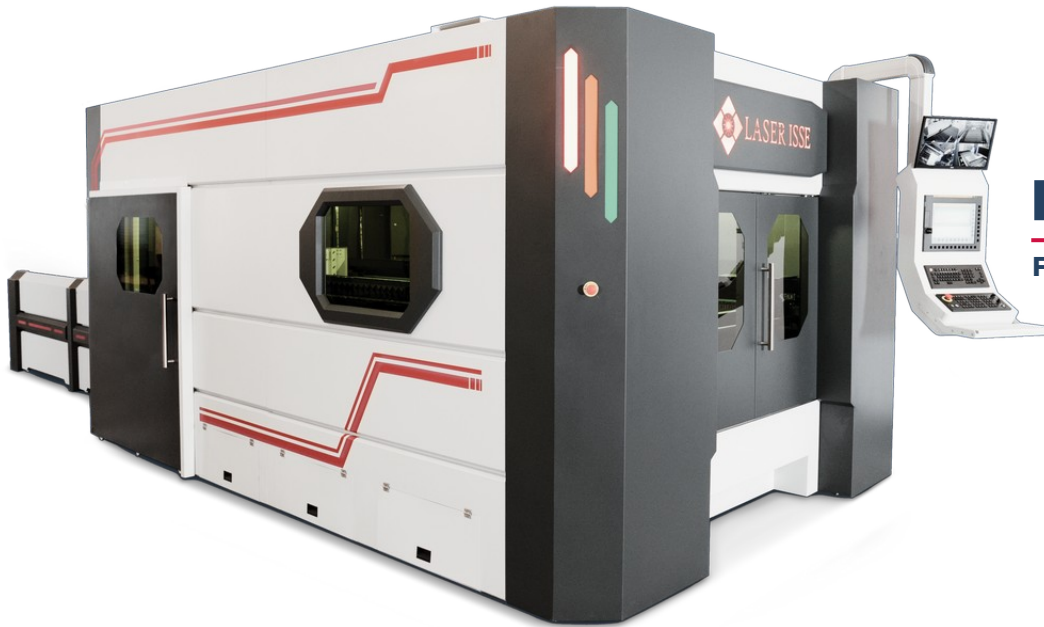
Technical Specifications

Laser Cutting Table	600x600 mm	1000x1000 mm	1250x1250 mm
Laser Power	Positioning Accuracy		Acceleration
1kW - 4kW	±25 µm		24 m/s ²
Jog Speed	CNC		Repeatability
≤250m./min	BECKHOFF		<10 µm

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

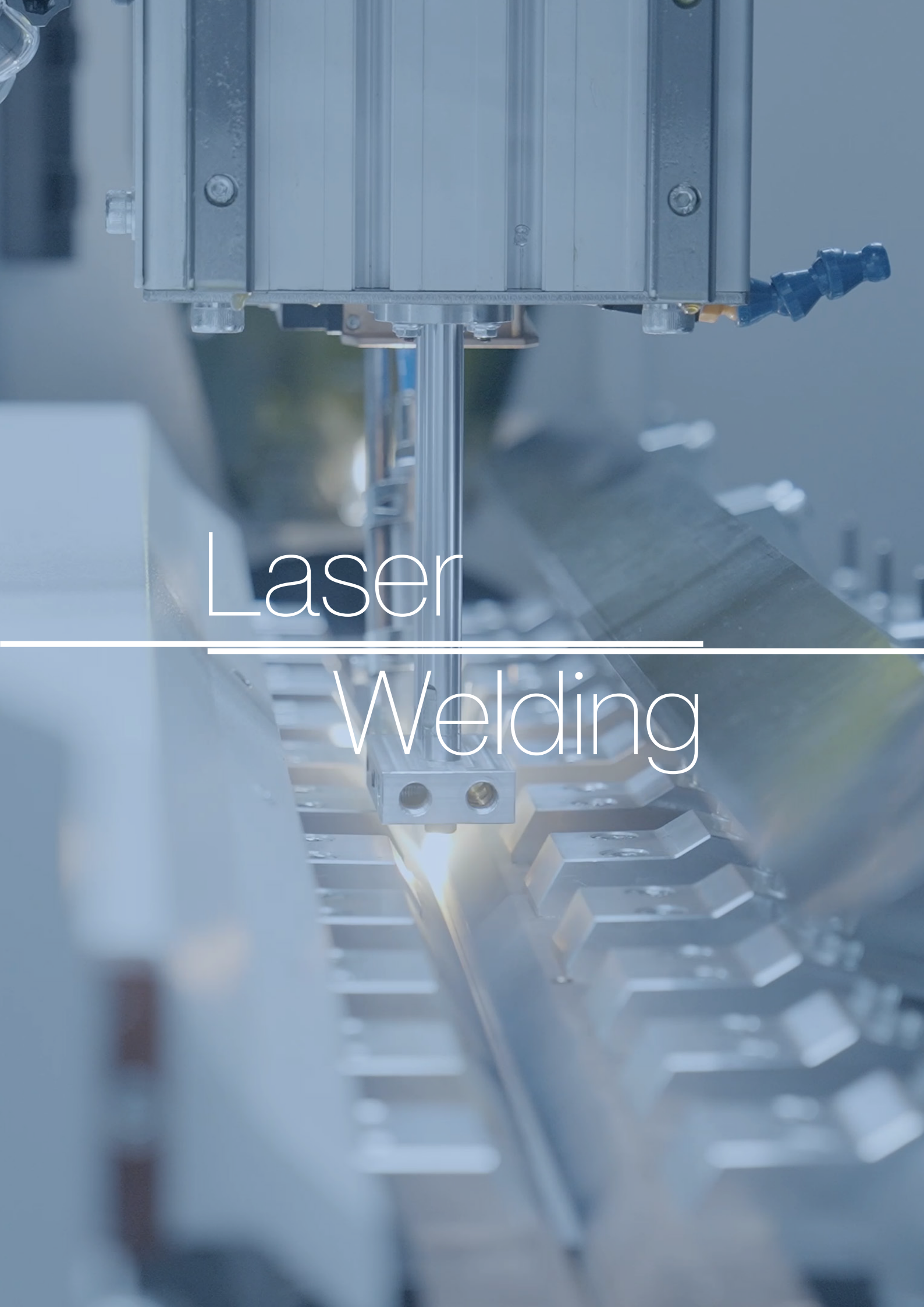
Features

- 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 ²	
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

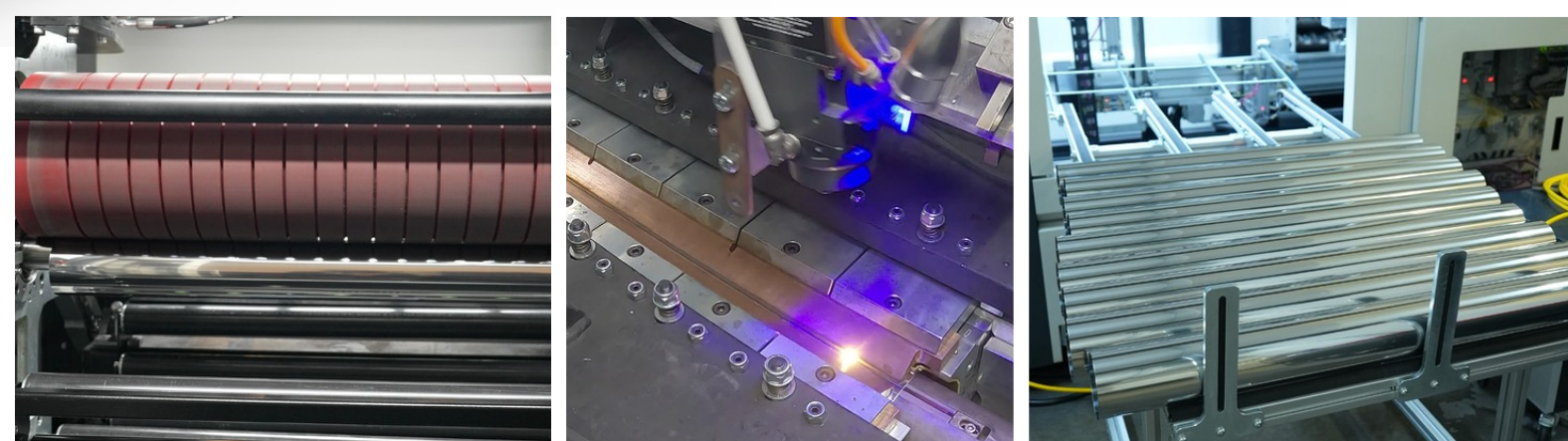


Fully-Automated production of high-quality tubes & pipes with a **thickness of up to 3 mm**. Laser ISSE provides incredibly adaptable automated pipe production lines that can simultaneously handle **decoiling, roll-forming, and welding**.

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



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

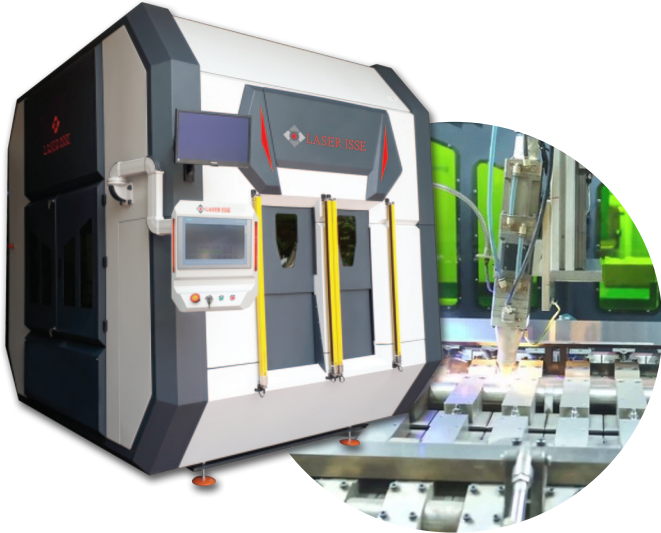
Marking Unit

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



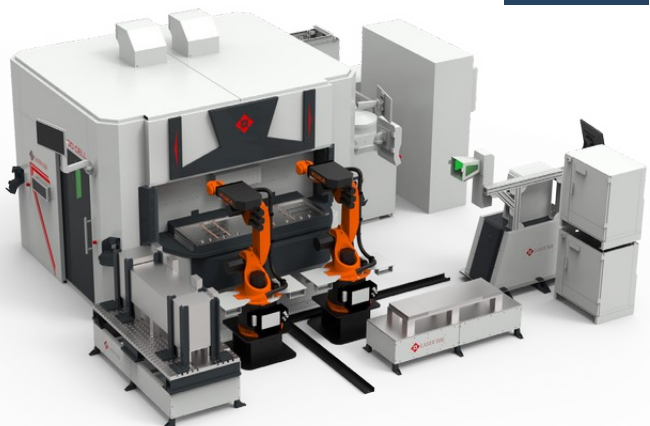
Features

- 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

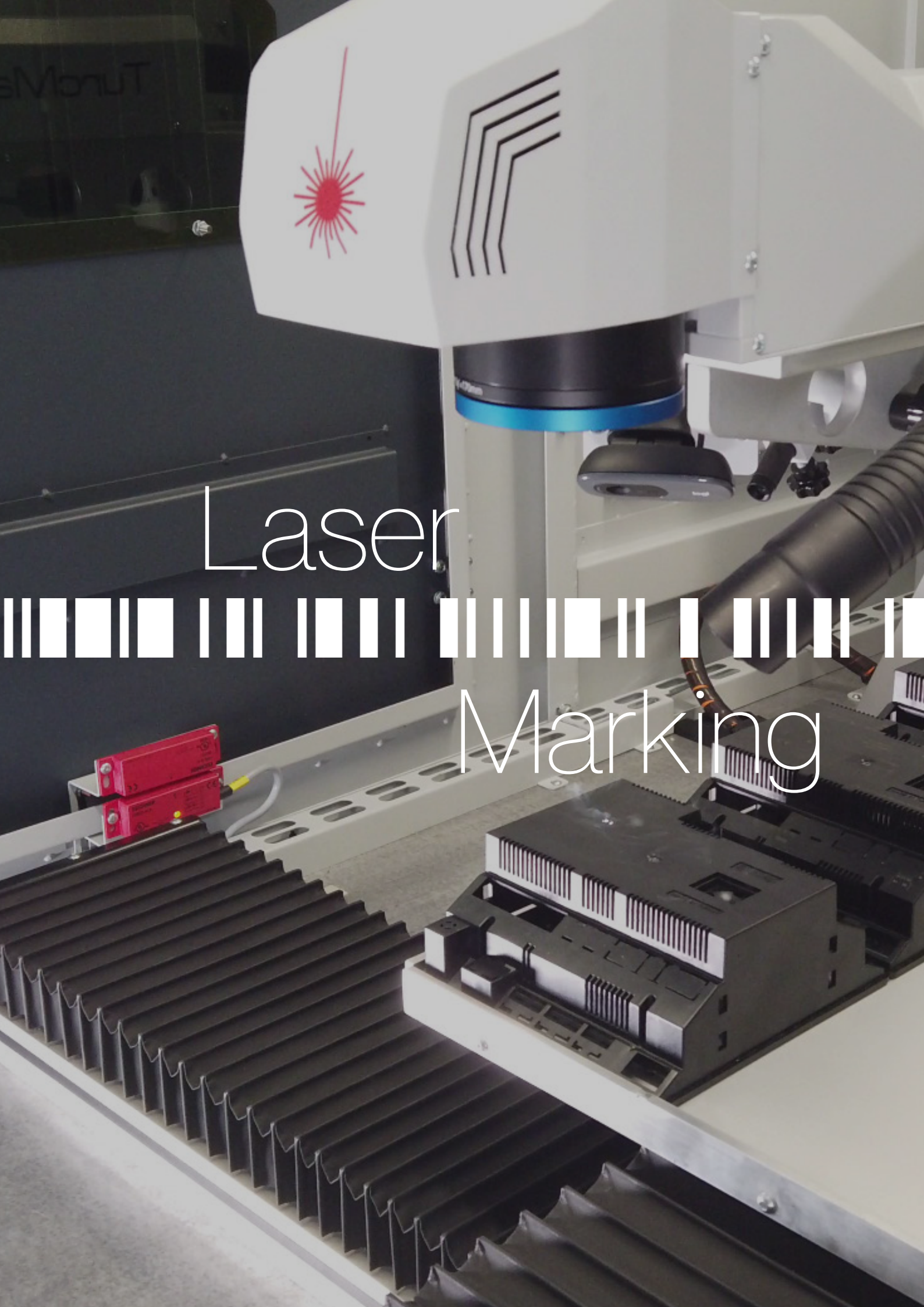


Watch Video



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

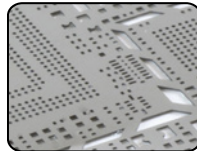
FREESTANDING TURNTABLE UNIT



Metal Engraving



Plastic Marking



Micro Cutting



2D - 3D Engraving

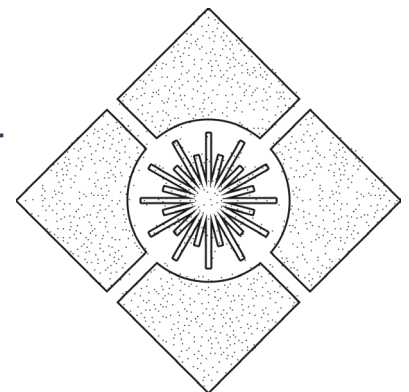


Traceability Marking

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



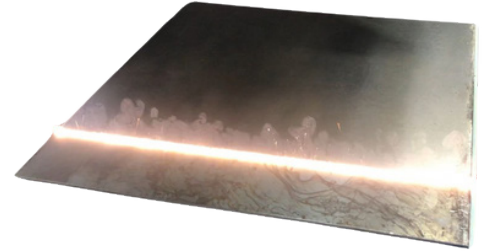
Laser

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



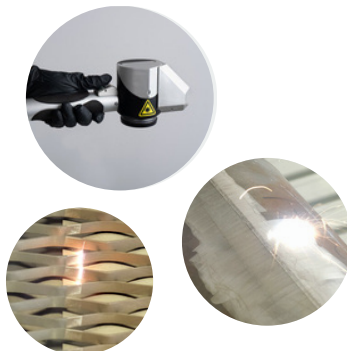
FAST APPLICATION
ROBUST RESULTS

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



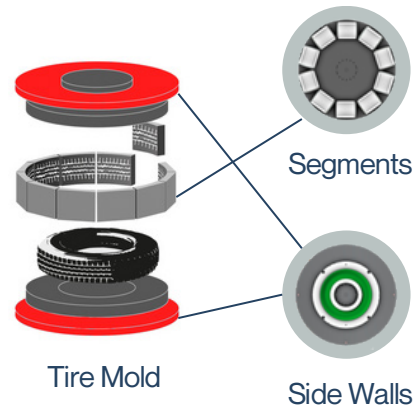
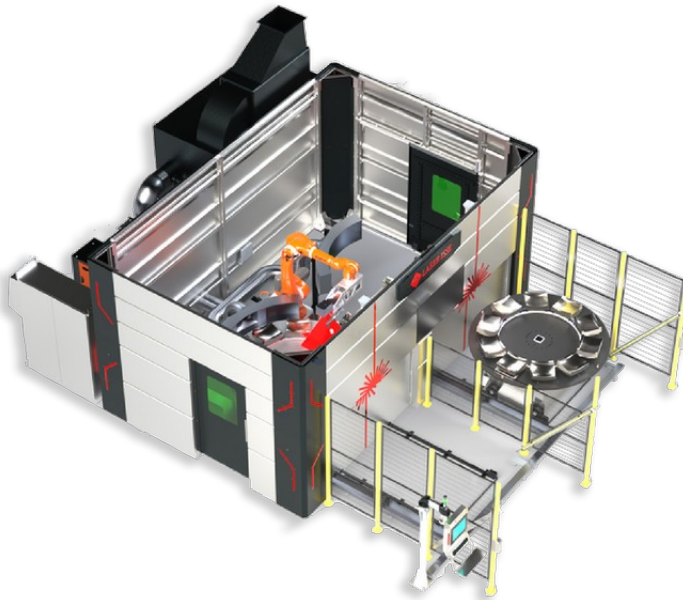
PAINT
REMOVAL



Twin Station Laser Cleaning Tire Mold Cleaning Cell



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Passenger Car



Light Truck



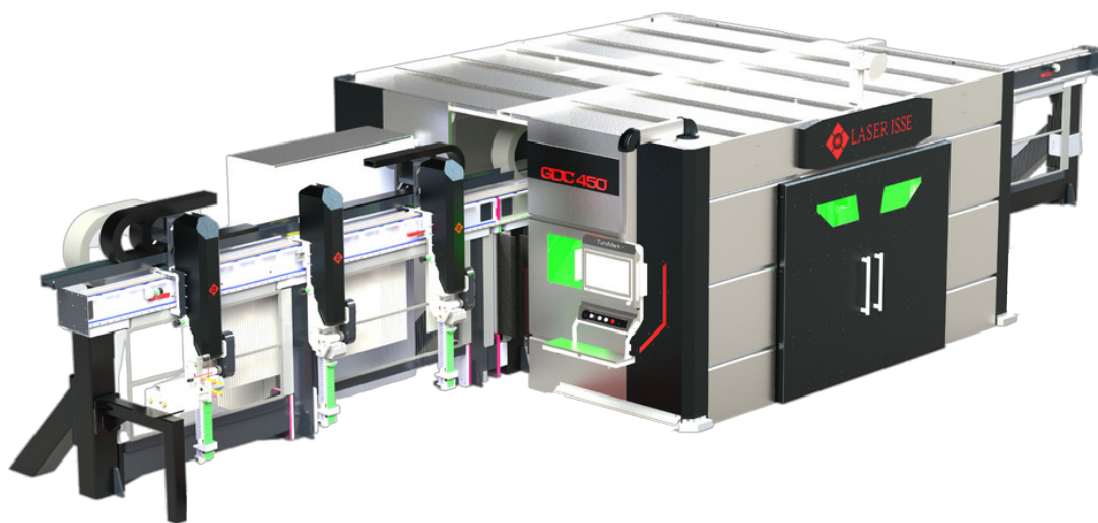
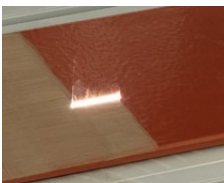
Truck

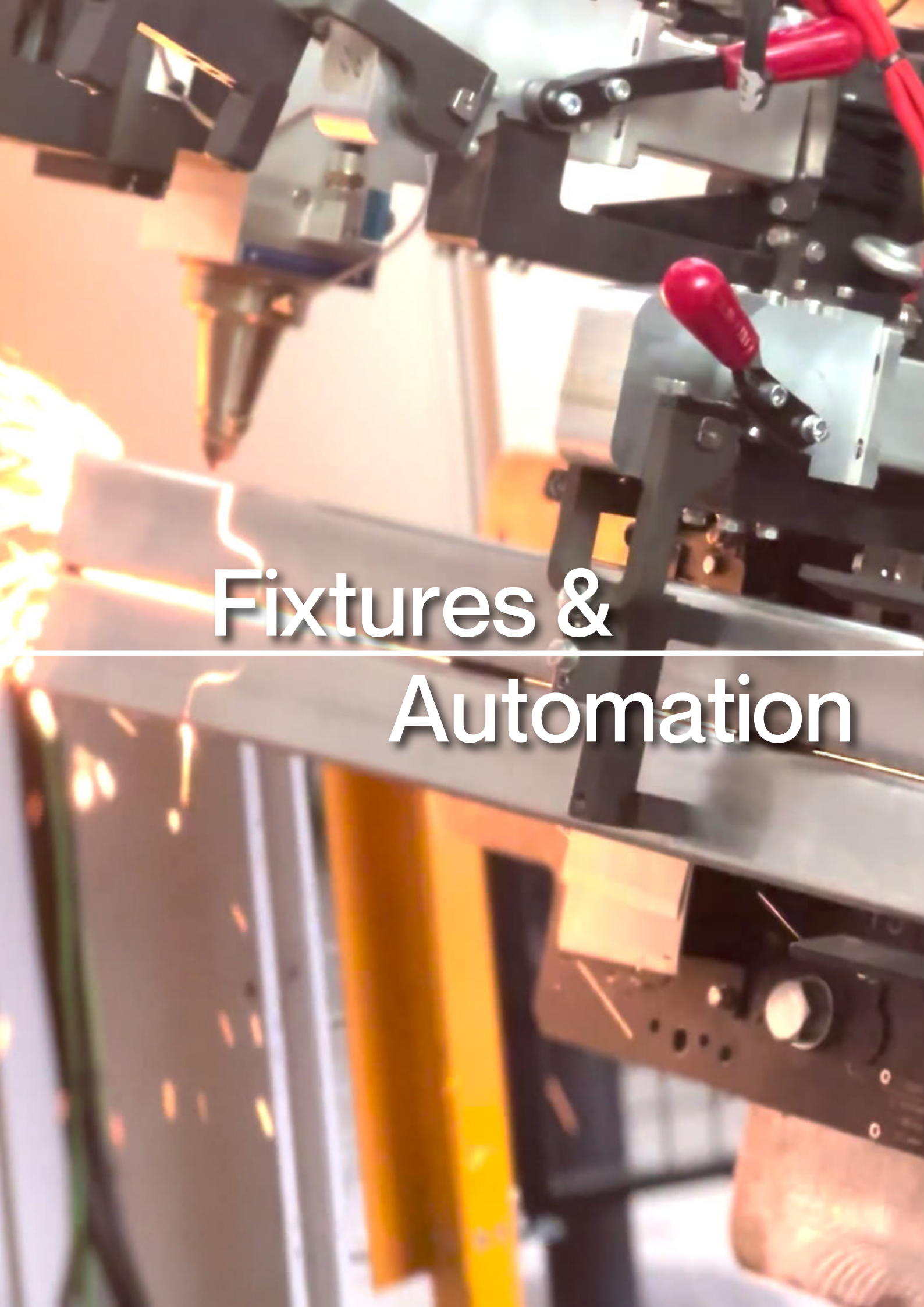
Wide Range of Work Capability

C450 GDC Busbar Epoxy Cleaning



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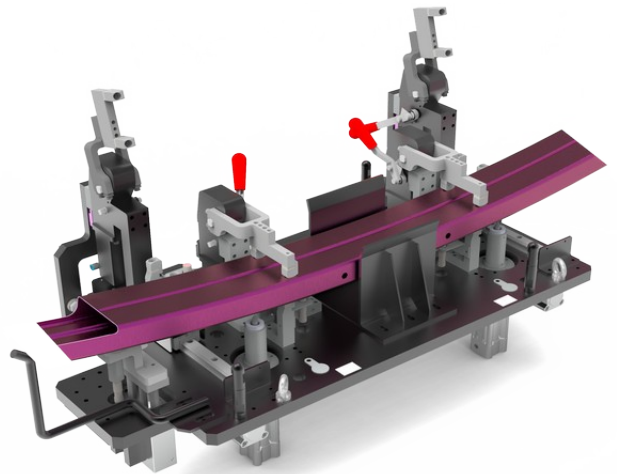


A close-up, dynamic shot of an industrial welding process. A bright, intense orange-yellow flame or laser beam is focused on a metal workpiece, creating a shower of bright sparks that fly downwards. The machinery is complex, featuring various metal components, bolts, and a prominent red handle or lever. The background is blurred, emphasizing the action in the foreground.

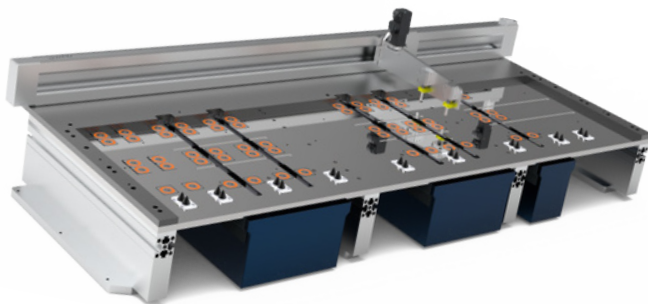
Fixtures & Automation

Cutting Fixture

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



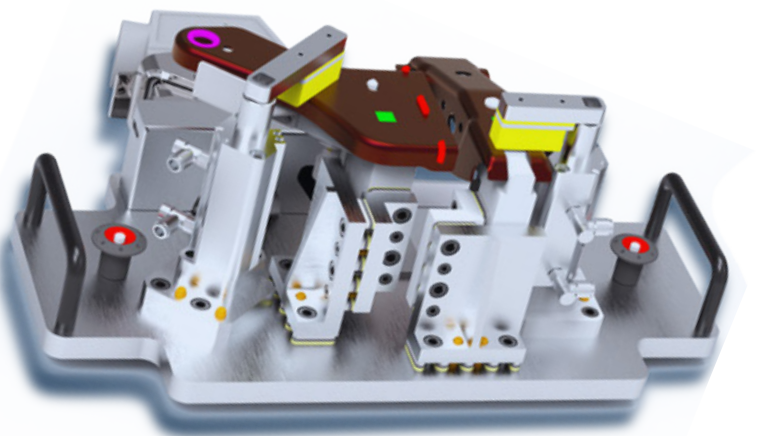
Welding Fixture



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

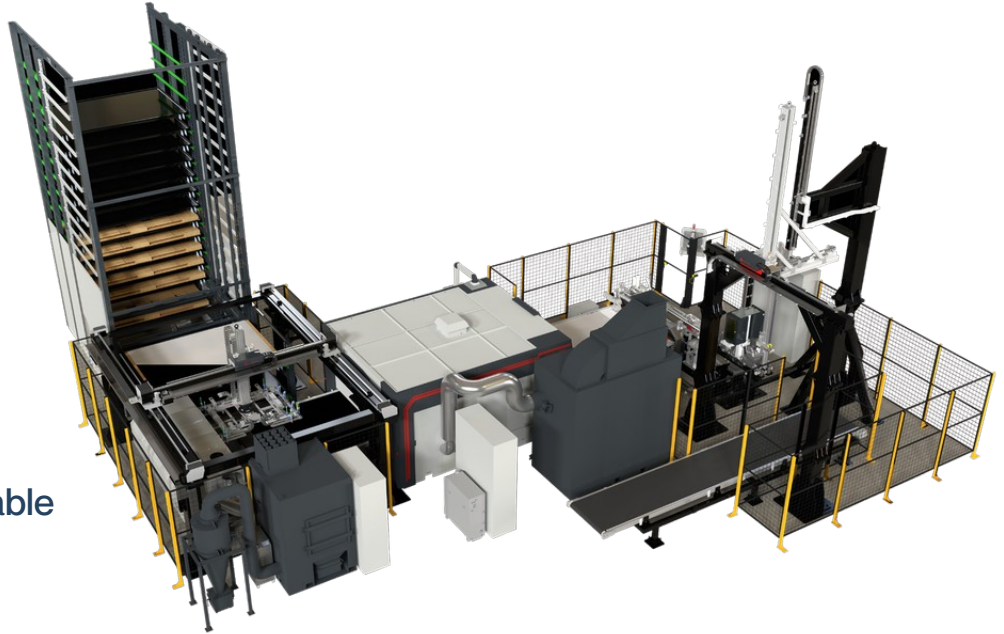


Boiler Jacket

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

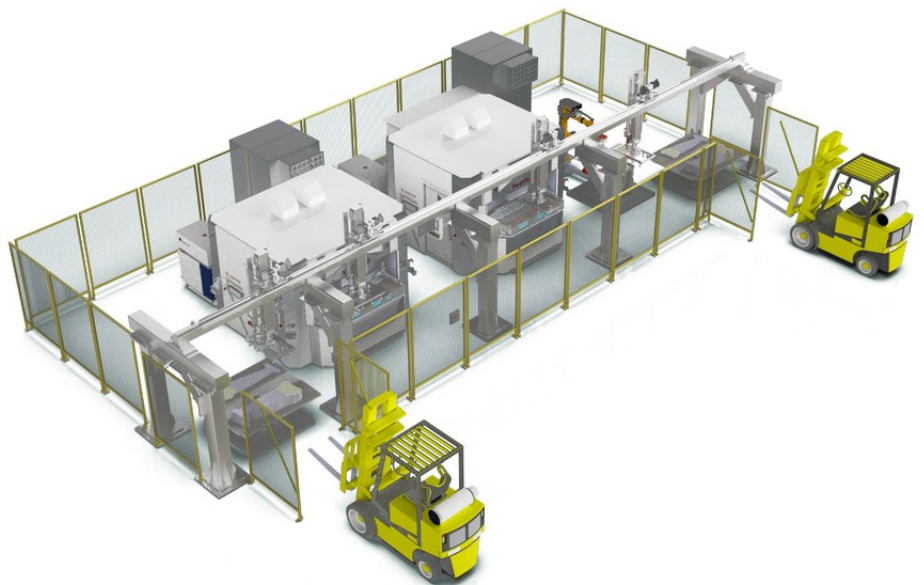


Tailor Welded Blank

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



Exported to 60+ Countries

Türkiye / Germany / USA



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