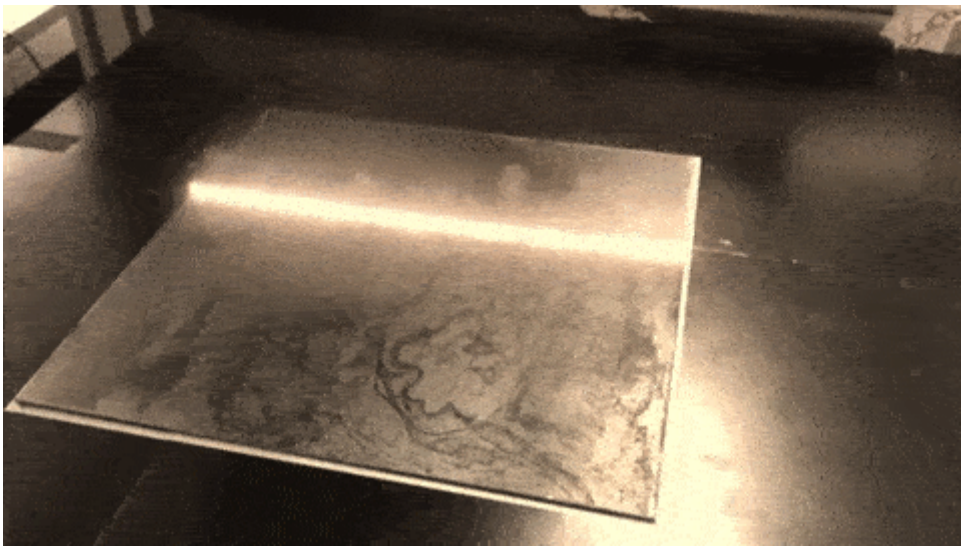
Laser Cleaning Solutions

HOW DOES LASER CLEANING WORKS?

Laser cleaning is an exciting new laser process where contaminants, debris or impurities (e.g. carbon, silicon and rubber) are removed from the surface of a material by way of laser irradiation. Not only is this a low-cost solution, it is also the most environmentally friendly application technique compared to the conventional cleaning processes which are widely used in many industries around the world.

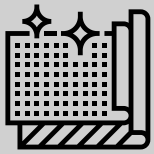
Laser coating removal is an ablative process whereby laser energy is focused and absorbed by the surface, resulting in vaporization of the coating with minimal effect to the underlying level. This process can be applied to various materials including metal, plastics, composites as well as glass.



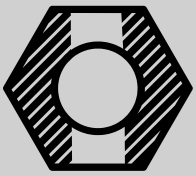
APPLICATIONS

WELDING & COATING PRETREATMENT

FACADE & FASCIA CLEANING



SURFACE PREPARATION



RUST REMOVAL

PAINT REMOVAL

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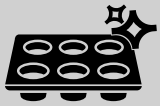
ART RESTORATION



MOLD CLEANING

CONTAMINATION REMOVAL

AEROSPACE PARTS CLEANING

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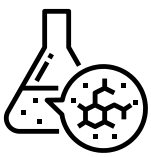
ADVANTAGES

NON – CONTACT PROCESS

AUTOMATION POSSIBLITIES

ENVIRONMENT FRIENDLY

COST EFFECTIVE



NO CONSUMABLES

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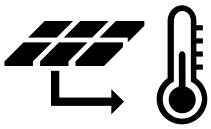
HIGH SPEED PROCESS



MINIMAL THERMAL EFFECT

HIGH PRECISION PROCESS

FASTER APPLICATION & ROBUST RESULTS

	Consumable	Process Speed	Contact	Enviroment	Energy Consumption	Thermal Effect Distortion
TurcClean Laser Cleaning	✗	10X ▶▶	✗	⚡	LOW	✗
Conventional Cleaning	✓	LOW	✓	☣	8X ⚠	HIGH

WHAT WE DO?

We have manufactured and sold 50+ Pulsed Laser Systems worldwide.

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15+ years of laser application experience.

We produce Laser Cleaning systems generated by Fiber, CO2 and Diode Lasers.

We offer project-based production line solutions.

We are a leading company in the use of Pulsed Lasers for cleaning applications.

We provide a wide range of systems for laser cleaning including;

Robotic Laser Cleaning Systems

Cartesian Laser Cleaning Systems

Manual Laser Cleaning Systems

Custom Design ***OEM*** Laser Cleaning Systems

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LASER TYPES

TRUMPF

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FIBER LASER

Fiber lasers are highly effective in cleaning applications by means of advanced technology.

With a 1064nm Pulse laser beams, it allows for a faster process time & low operational costs.

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DIODE LASER

Diode lasers deliver excellence in quality, with laser powers extending into a multi-kilowatt range.

Stable processes through integration ensures active laser power control for highest precision, reproducible results.

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CO2 LASER

CO2 lasers are advantageous when it comes to material types, with a flexibility to adapt to a wider range of materials.

With its wavelength of 10.6 µm (far end of infrared range), the CO2 lasers are perfectly suitable for the cleaning of organic material surfaces.

MODELS

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6 – AXIS ROBOT

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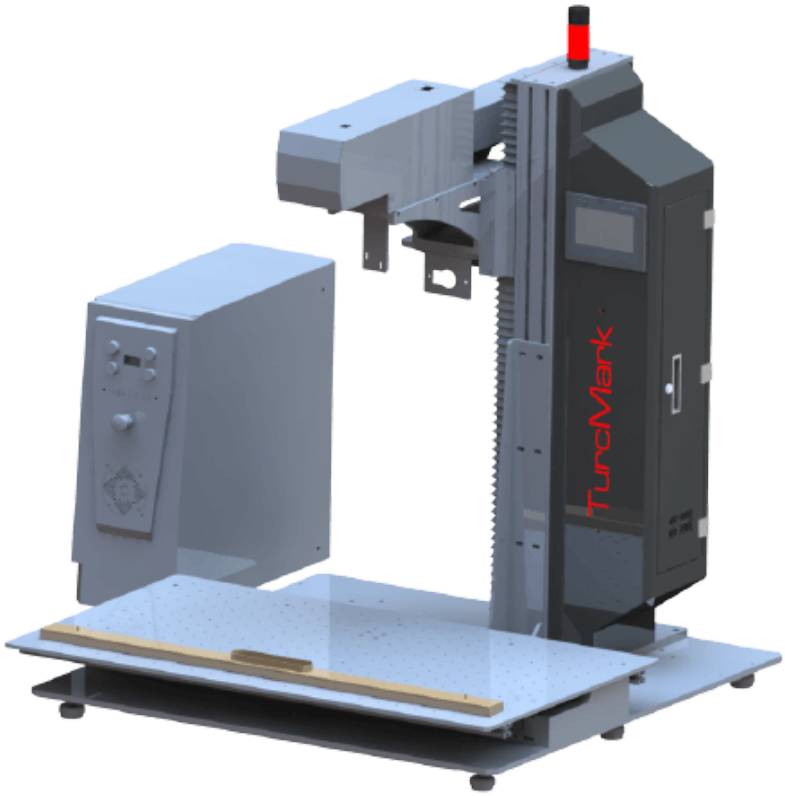
CUSTOM DESIGN



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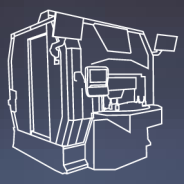
DESKTOP DESIGN

AVAILABLE FEATURES

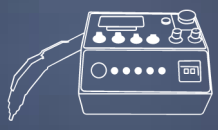
4.0

Robotic Integration

Rotary Indexing Table

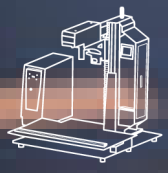


Class 1 Safety Cell



Manual Application

Large Field Application



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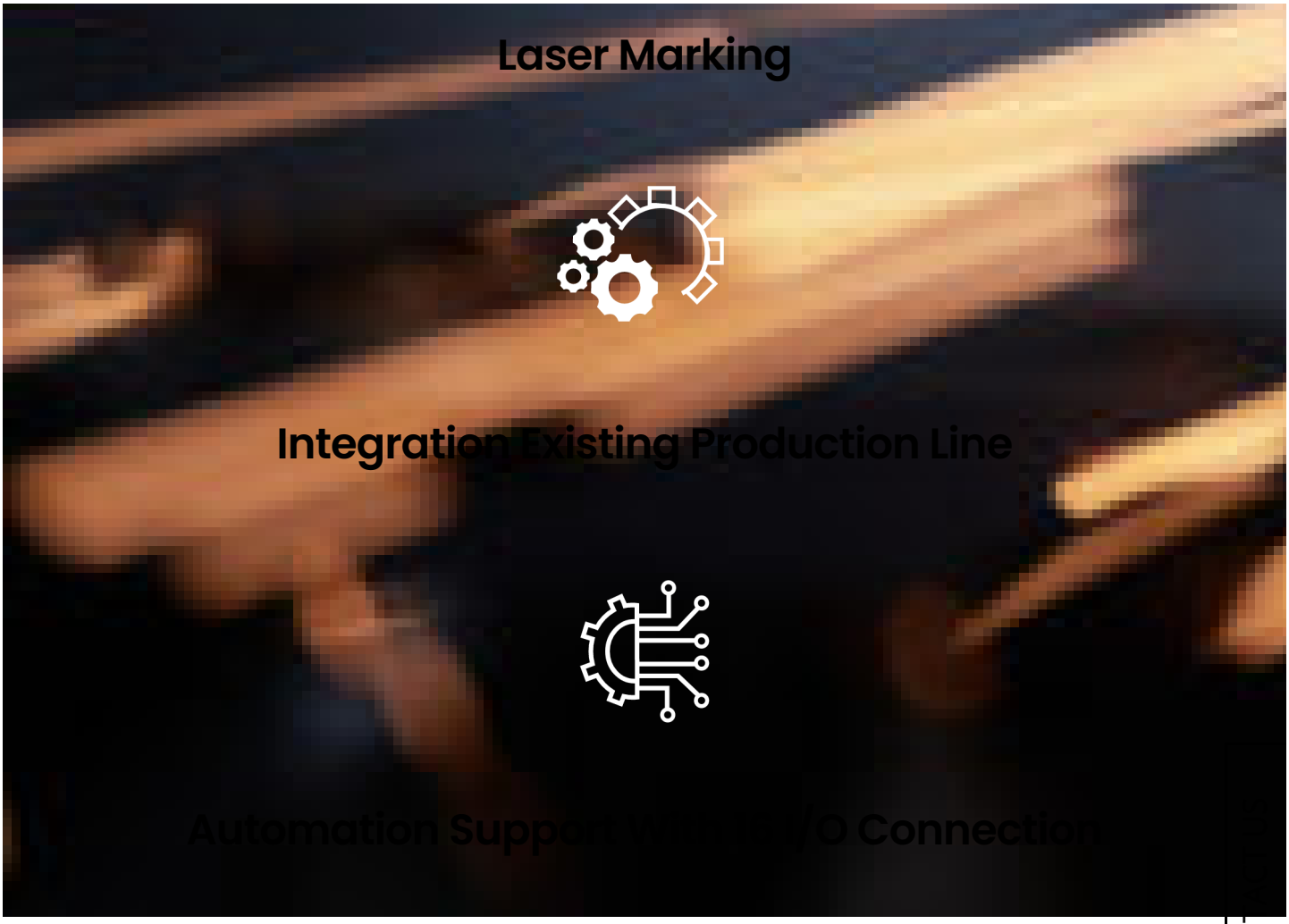

CON

OUR PARTNERS

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FIBER DISC LASER

CONTACT US

CO2 LASER

CONTACT US

SCANNING HEAD

CONTACT US

LASER SAFETY EQUIPMENTS & CERTIFICATION

SIEMENS

CONTACT US

PLC & CONTROLLER

CONTACT US

SYSTEM PARTNER

BECKHOFF

CONTACT US

PLC & CONTROLLER

FESTO

CONTACT US

PNEUMATIC & CHILLER

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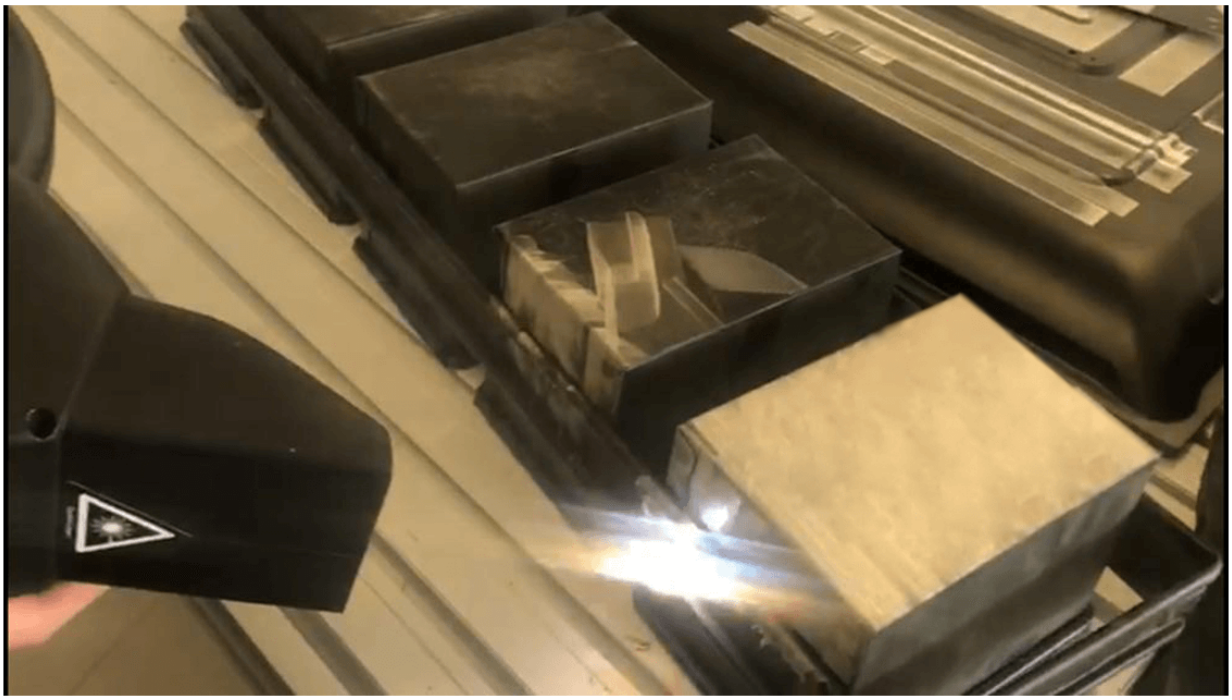
PNEUMATIC & CHILLER

MODELS



MANUAL LASER CLEANING HANDHELD DEVICE

SAMPLES

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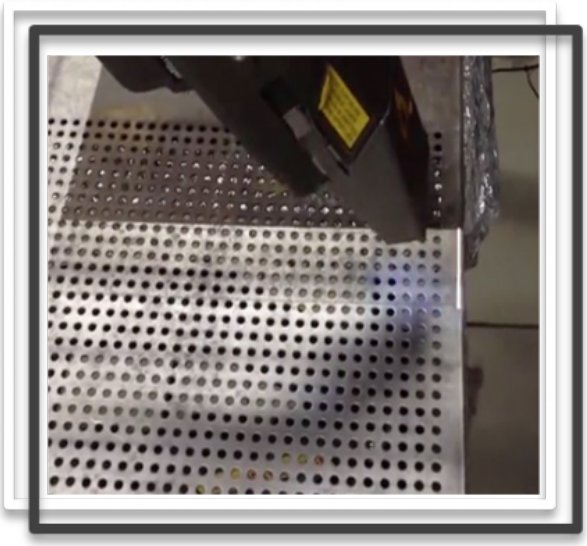

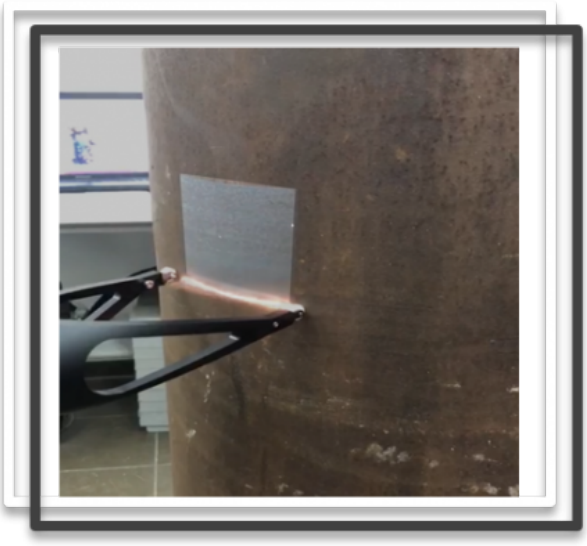

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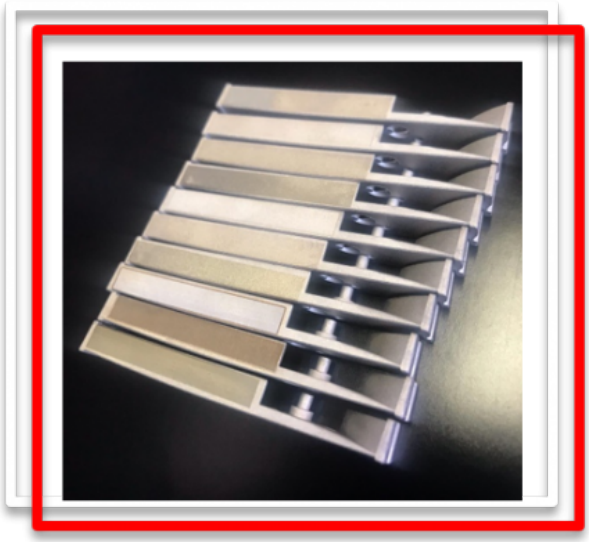

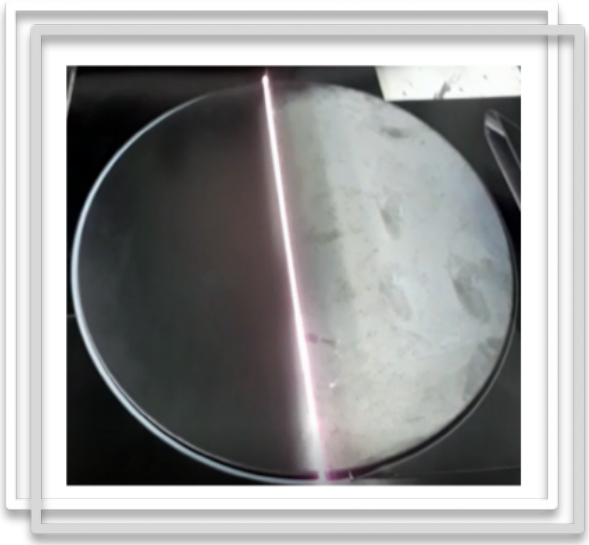

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VIDEOS

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