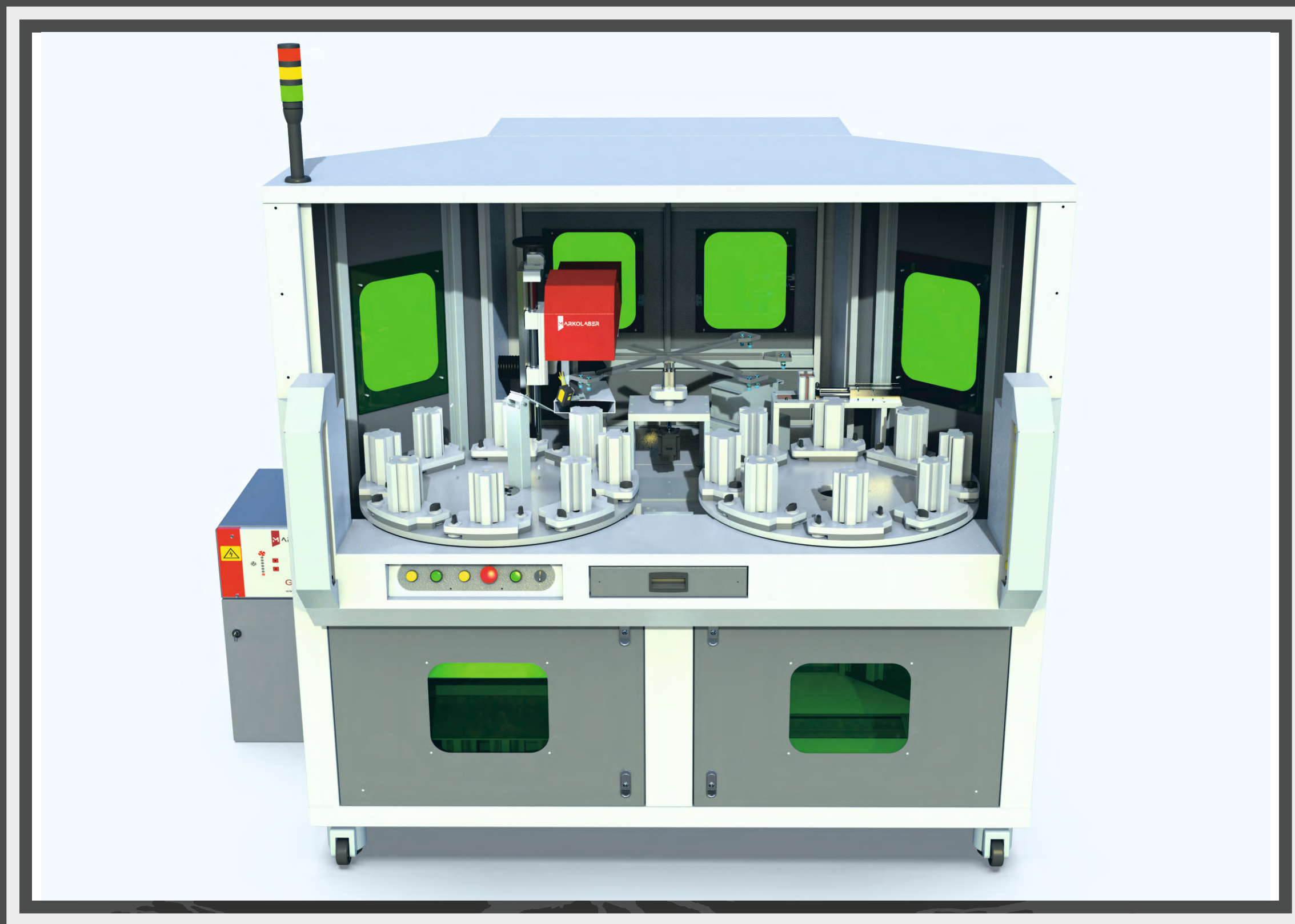


ONE STOP SOLUTION



LASER TECHNOLOGY

Marking- Welding- 3-Axis Engraving & Texturing- Micromachining
Nanosecond- Femtosecond- Infrared- CO2 - Green- UV- Research & New Product Development

CUSTOM AUTOMATIONS & SPMs

Integration of Precision Part Handling Module; Vision Systems; Laser/Pad/Screen Printing M/Cs, IOT Devices; User Standards GUI; Traceability Solutions; Pre/Post- Surface Treatment Modules; & Other Custom Automation; as per GMP, ISO, CE Compliance.



HYBRID MACHINES

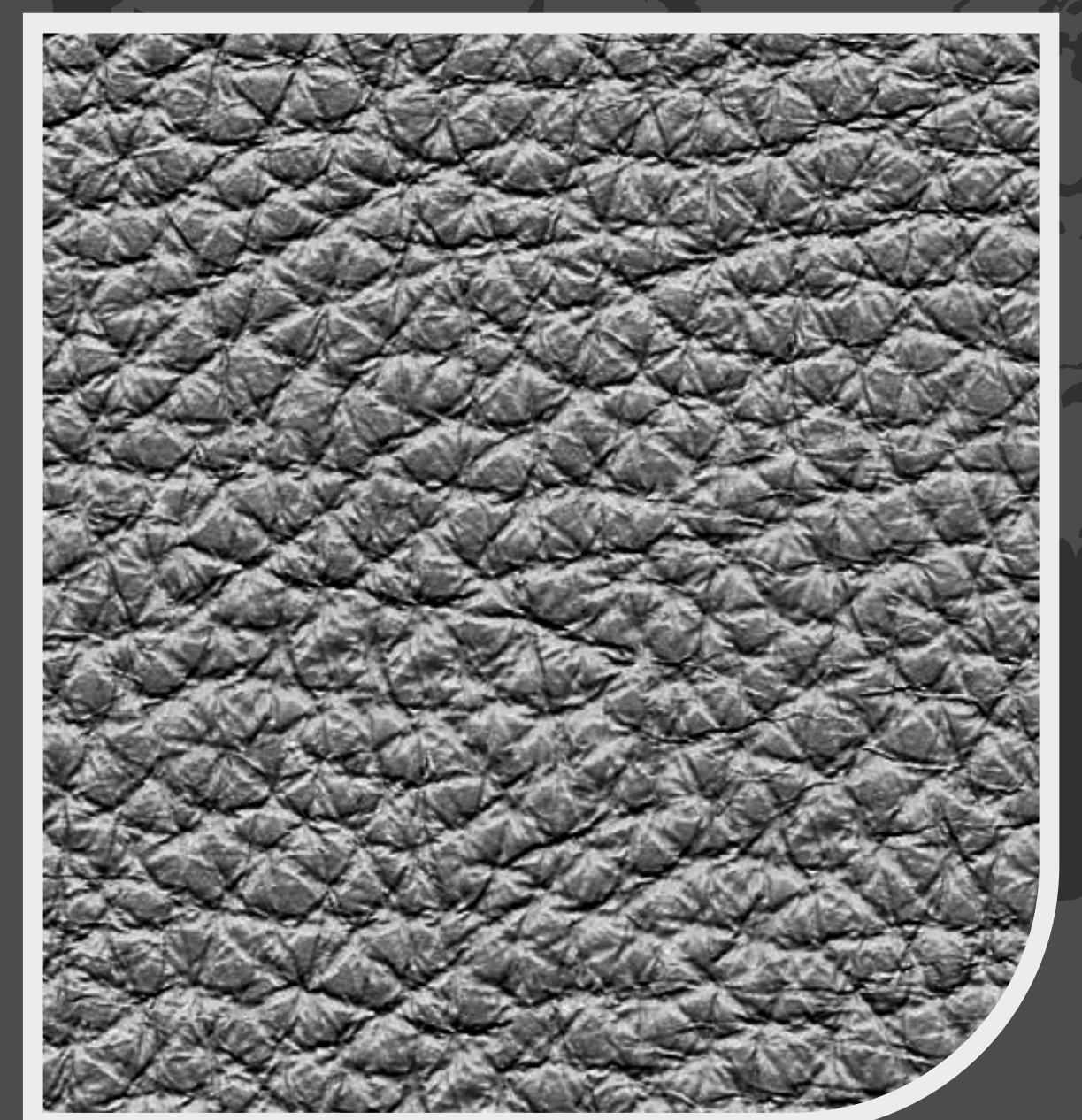
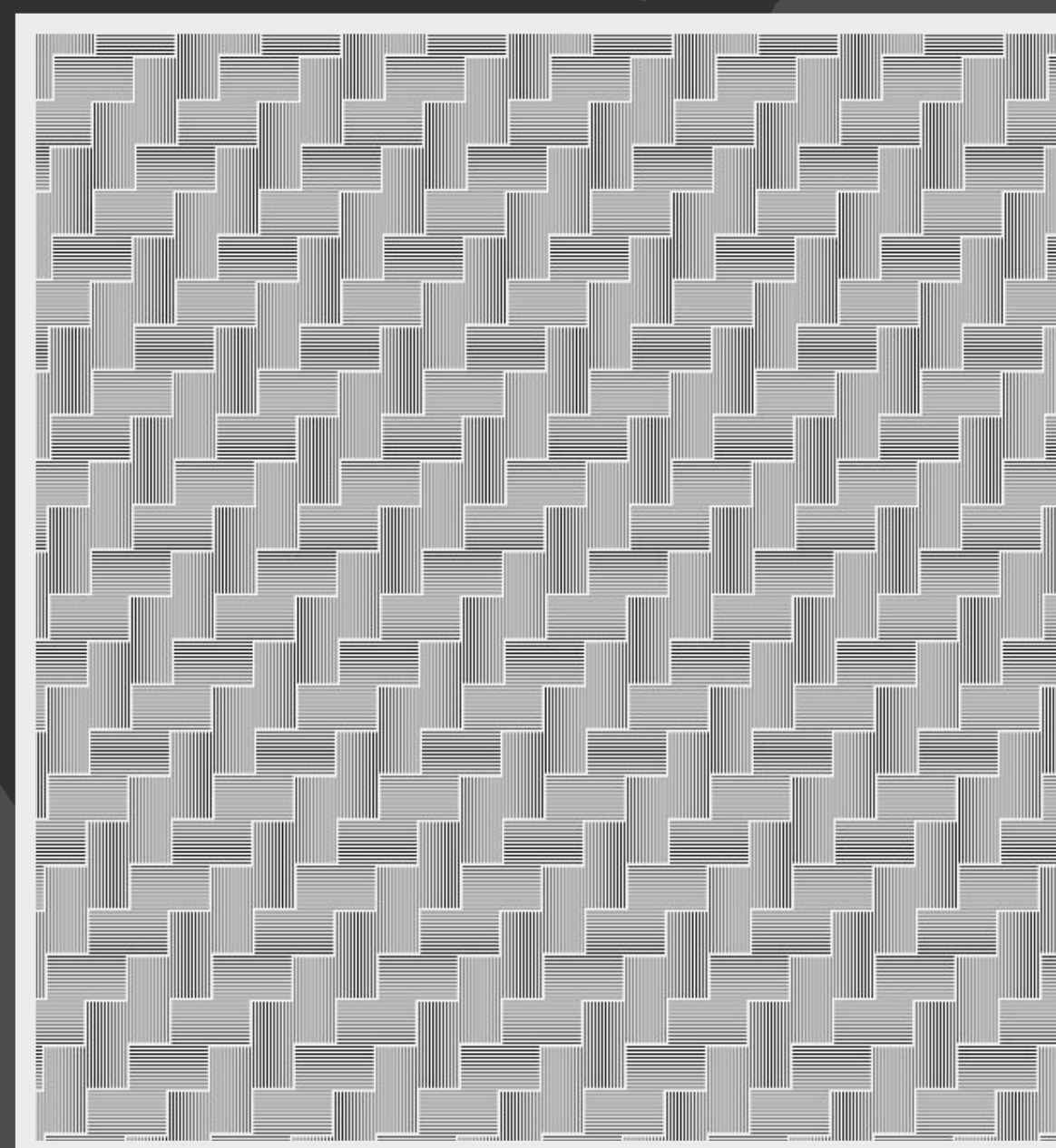
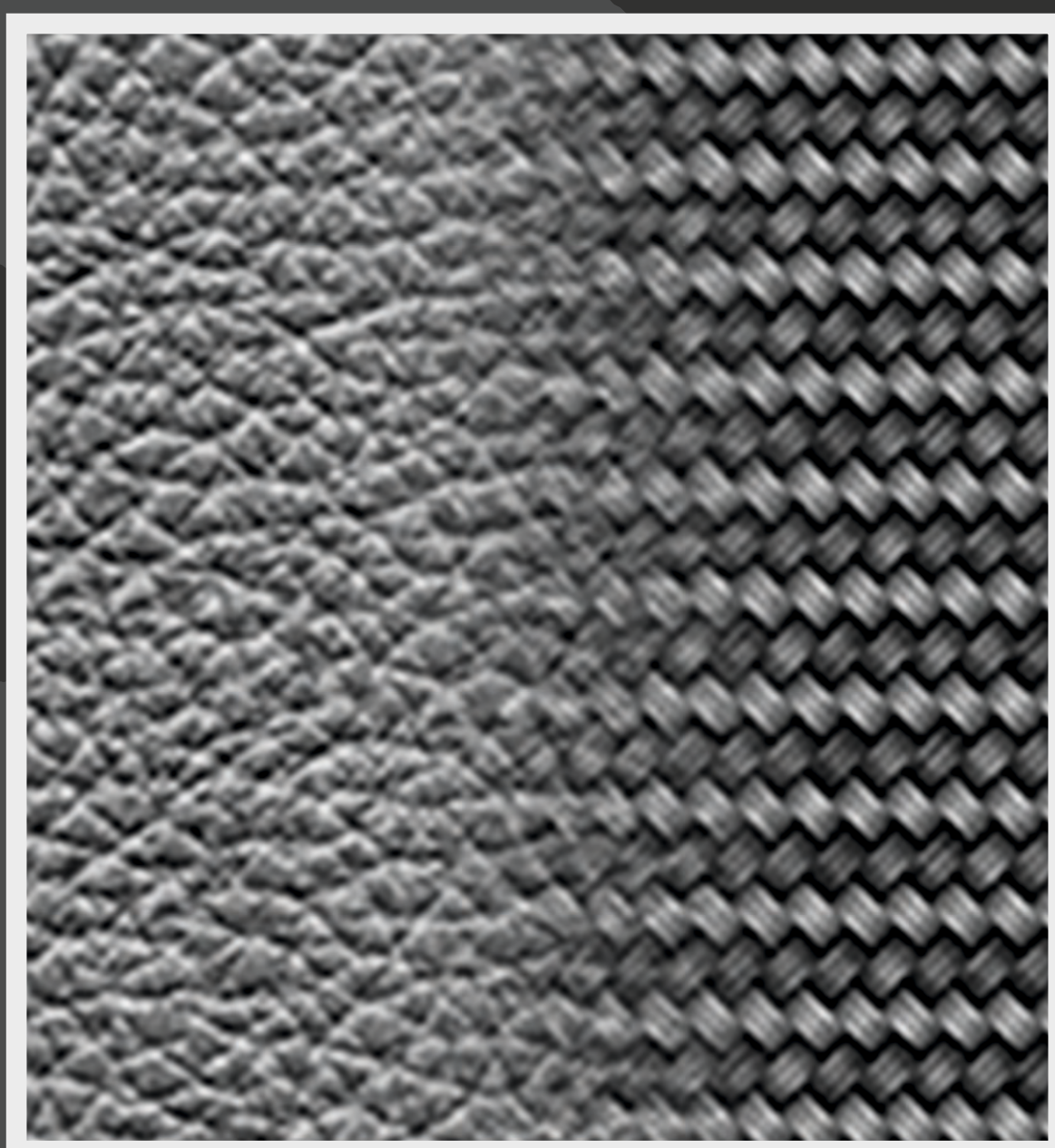
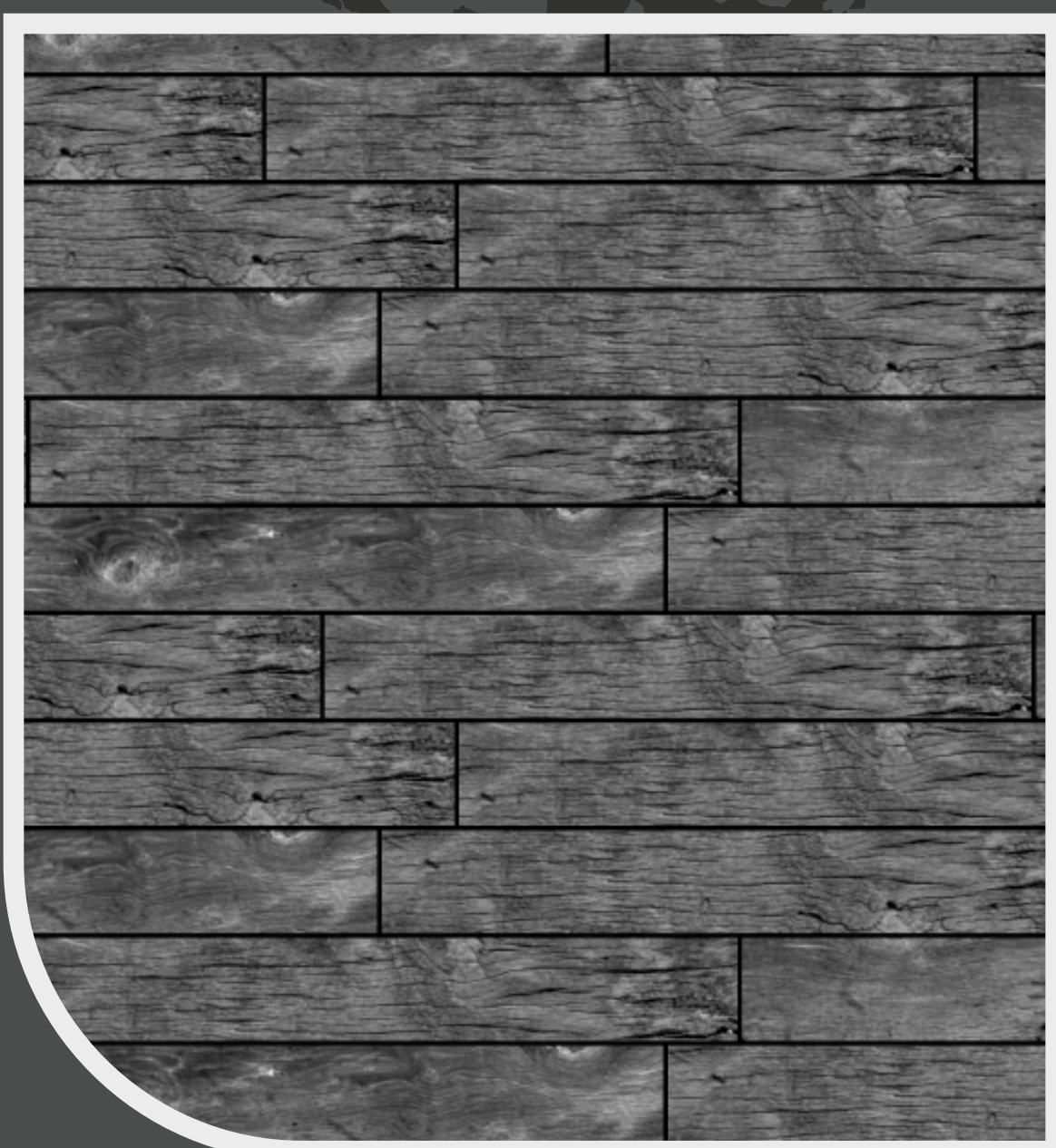
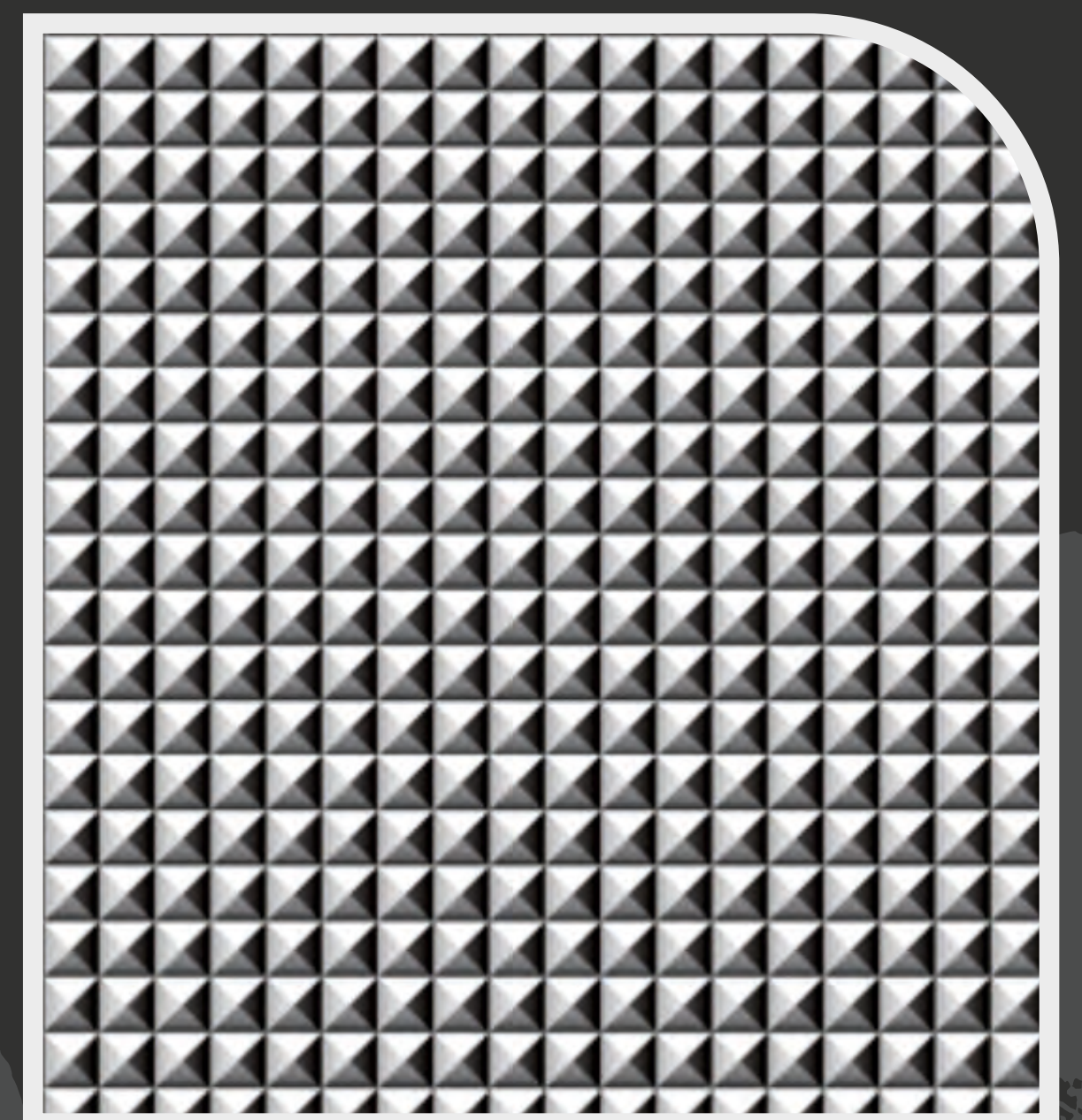
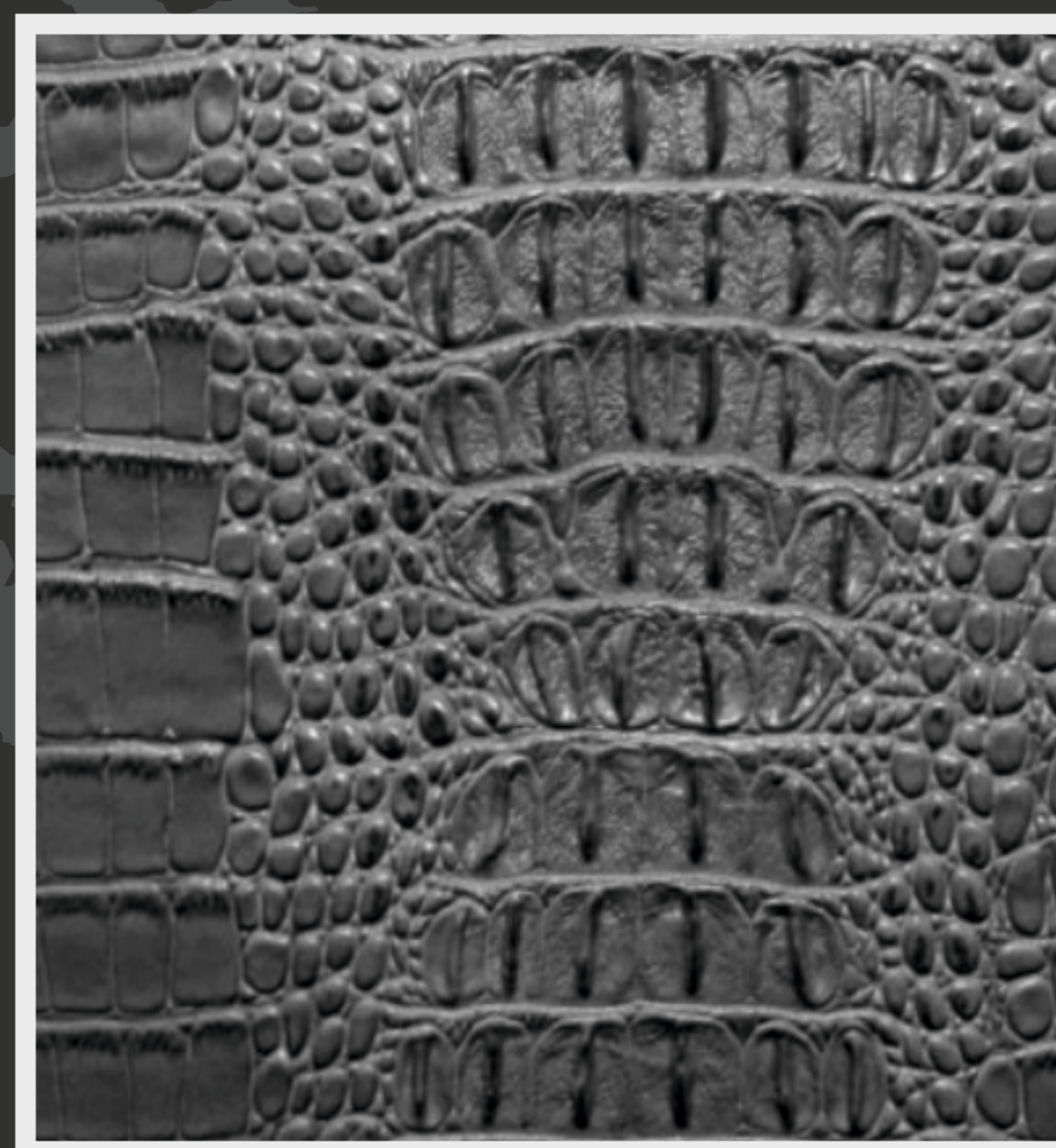
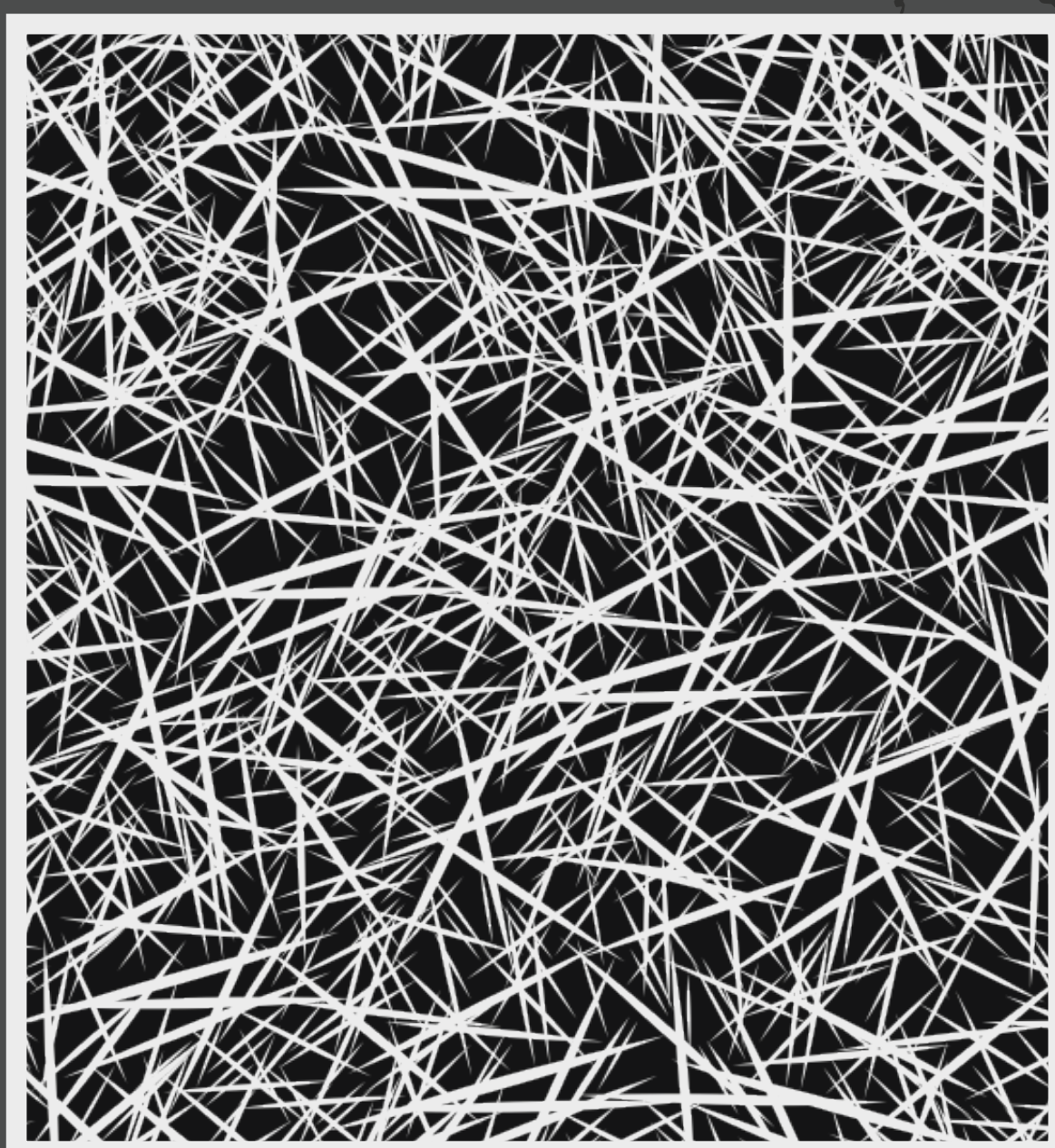
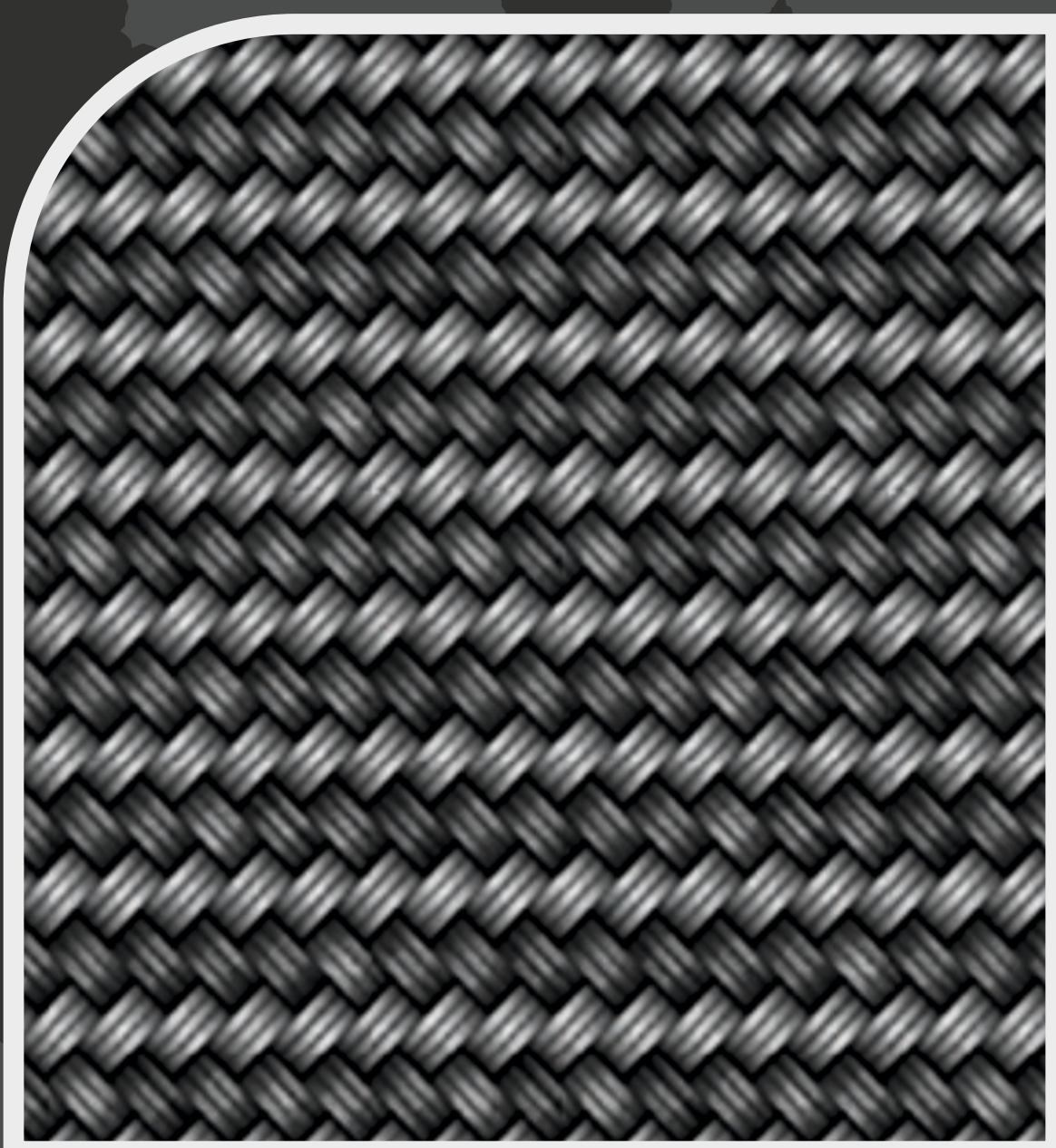
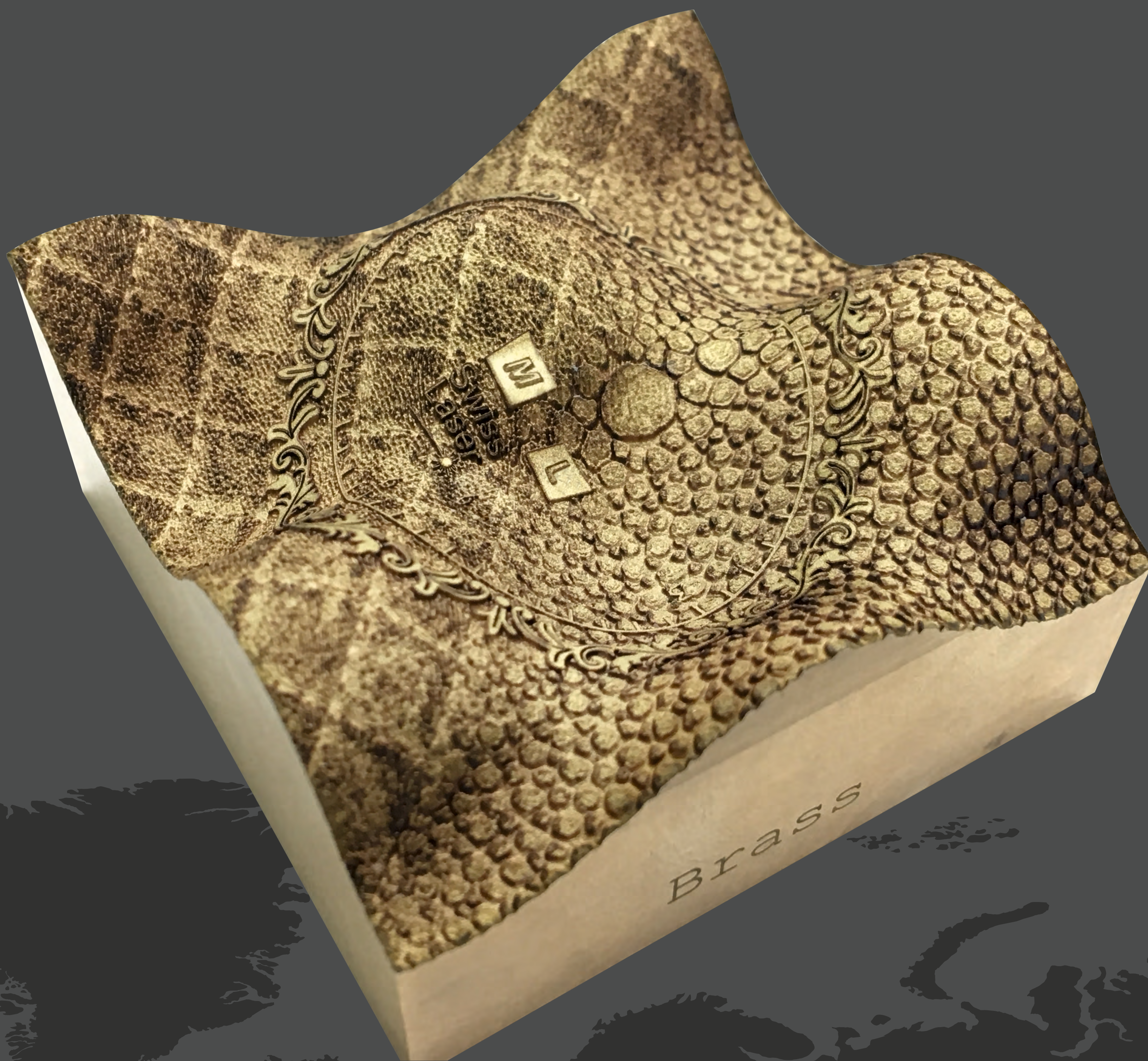
Modular Design & Flexible Machine Concepts - Integration of Various Laser System & Pad Printing Machines- Excellent Customized Concept Machines for Various Industry.

SOFTWARE INTEGRATION

Product Data Management- Custom User Interface- Process Data Mapping- Integrable with any MES System- Event/Alarm Management Custom Reporting Tool- Supervisory Control KPI's & Monitoring/Analysis- Recipe Management



3D LASER TEXTURING ON FREEFORM SUBSTRATES

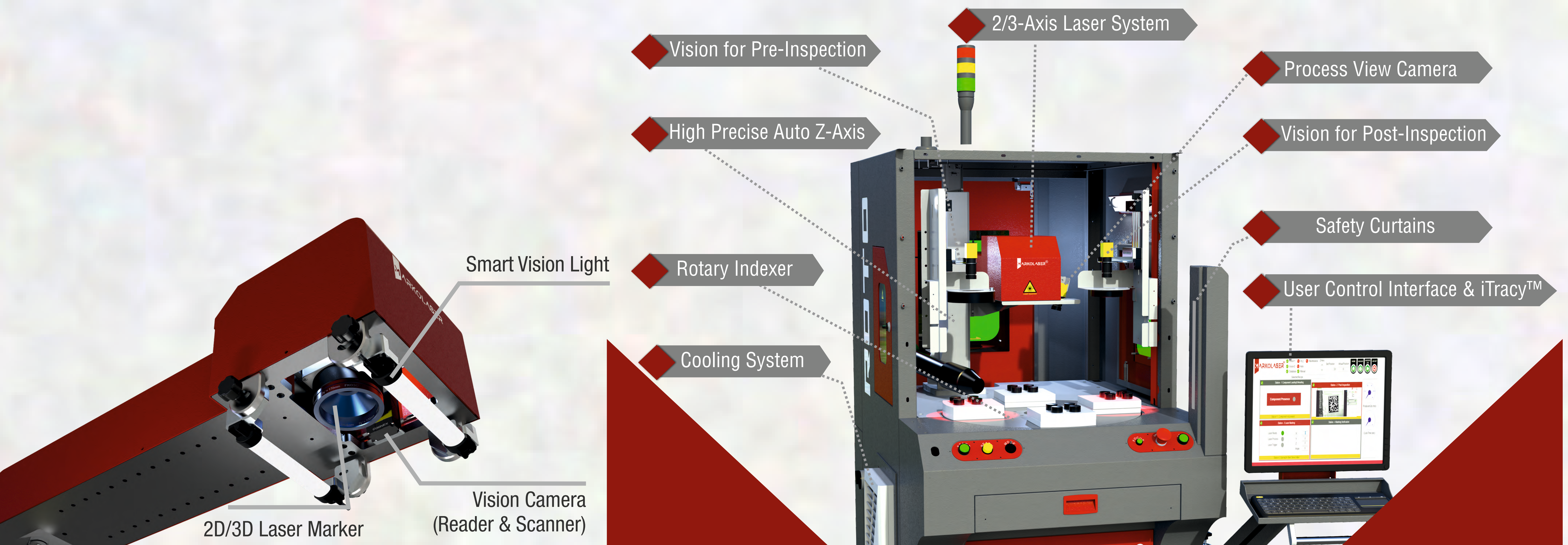


APPLICATIONS

Leather	Carbon Fiber
Organic	Laser Hardening
Wood	Frosting
Geometrical	Matte
Optics	Stone

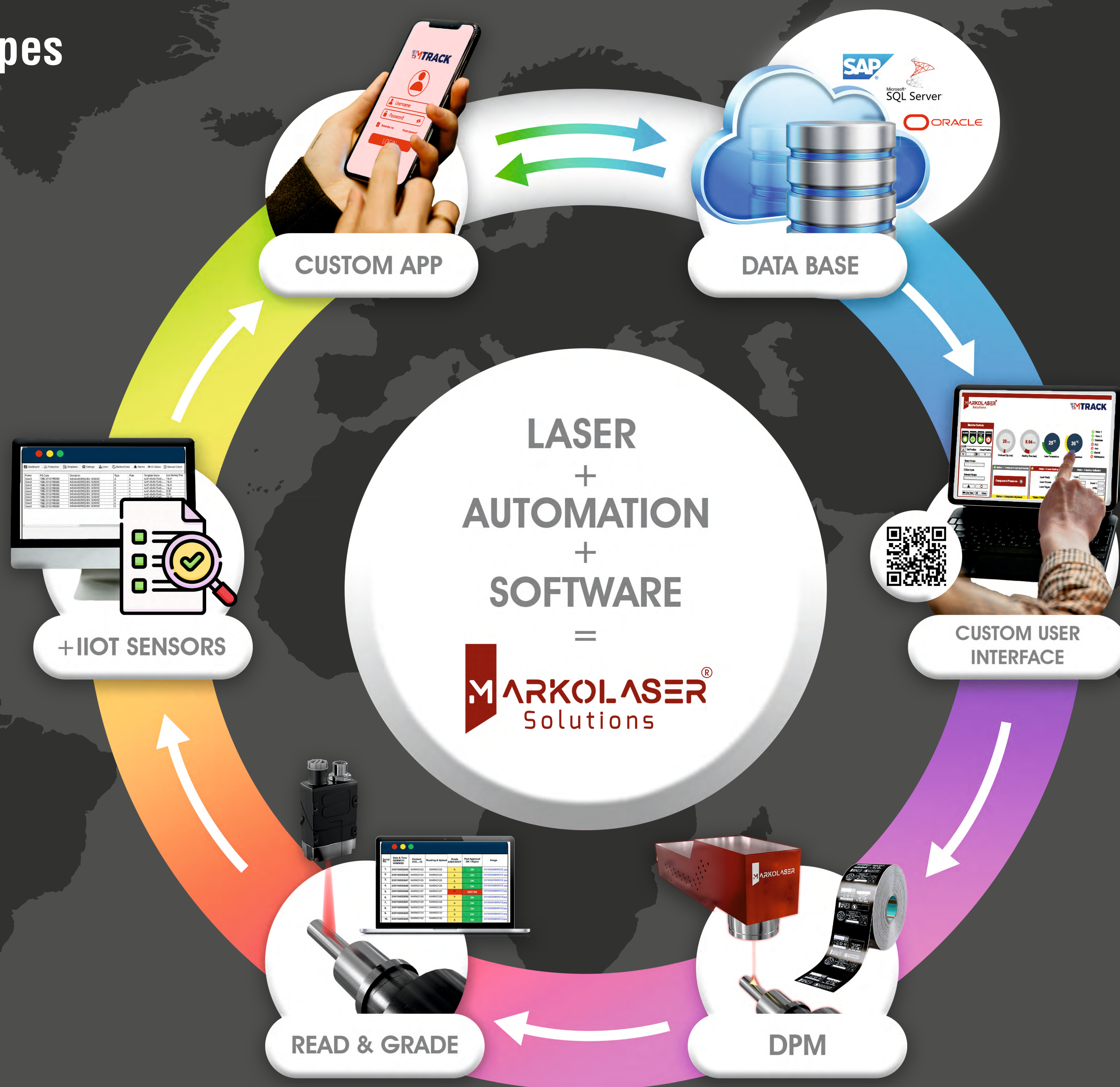
METALS • STEELS • CARBIDE • CERAMICS

MARKO TRACER 3 IN 1 : MARK, READ, VALIDATE

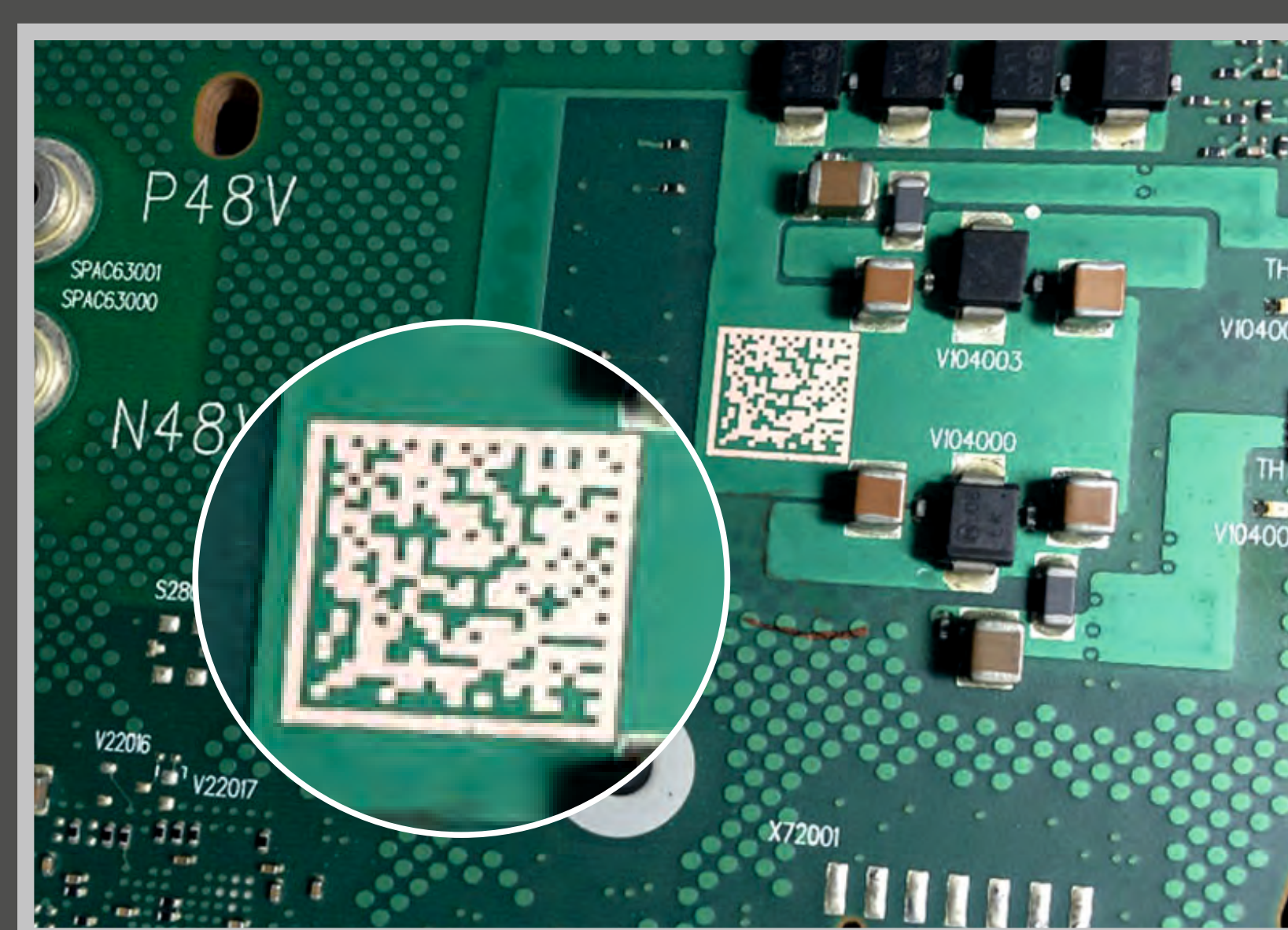


Compatible Laser Types

- FIBER
- GREEN
- UV
- FEMTO
- PICO



Automotive Industry



Electricals/Electronics Industry

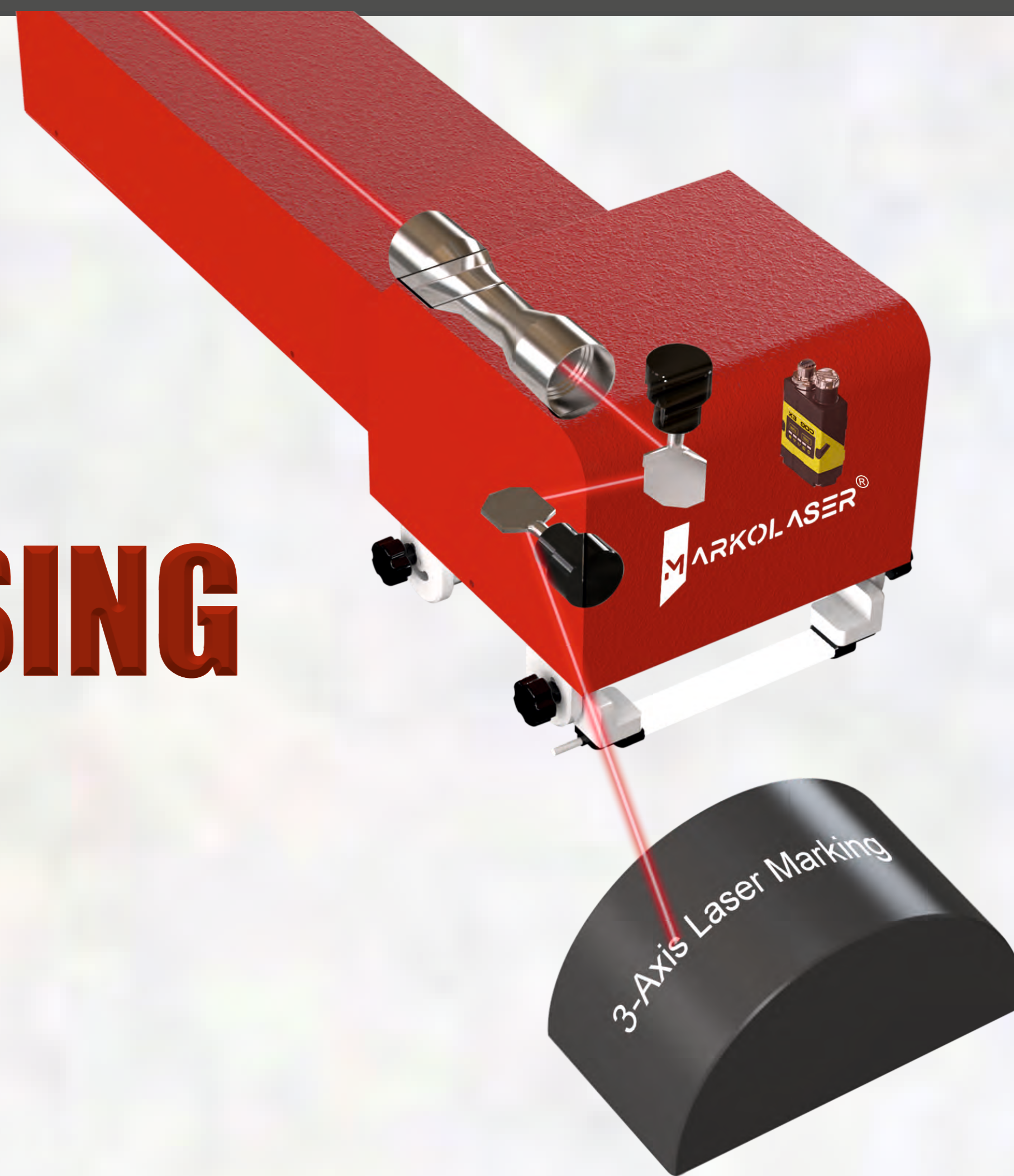


Medical Industry

We Follow DPM & Label Code Quality Standards

ISO/IEC	ISO/IEC	ISO/IEC	ISO/IEC	DOD	SAE	FDA	FDA
TR 29158	TR 24720	16022	15415	UID	AS9132	GS1	CFR21

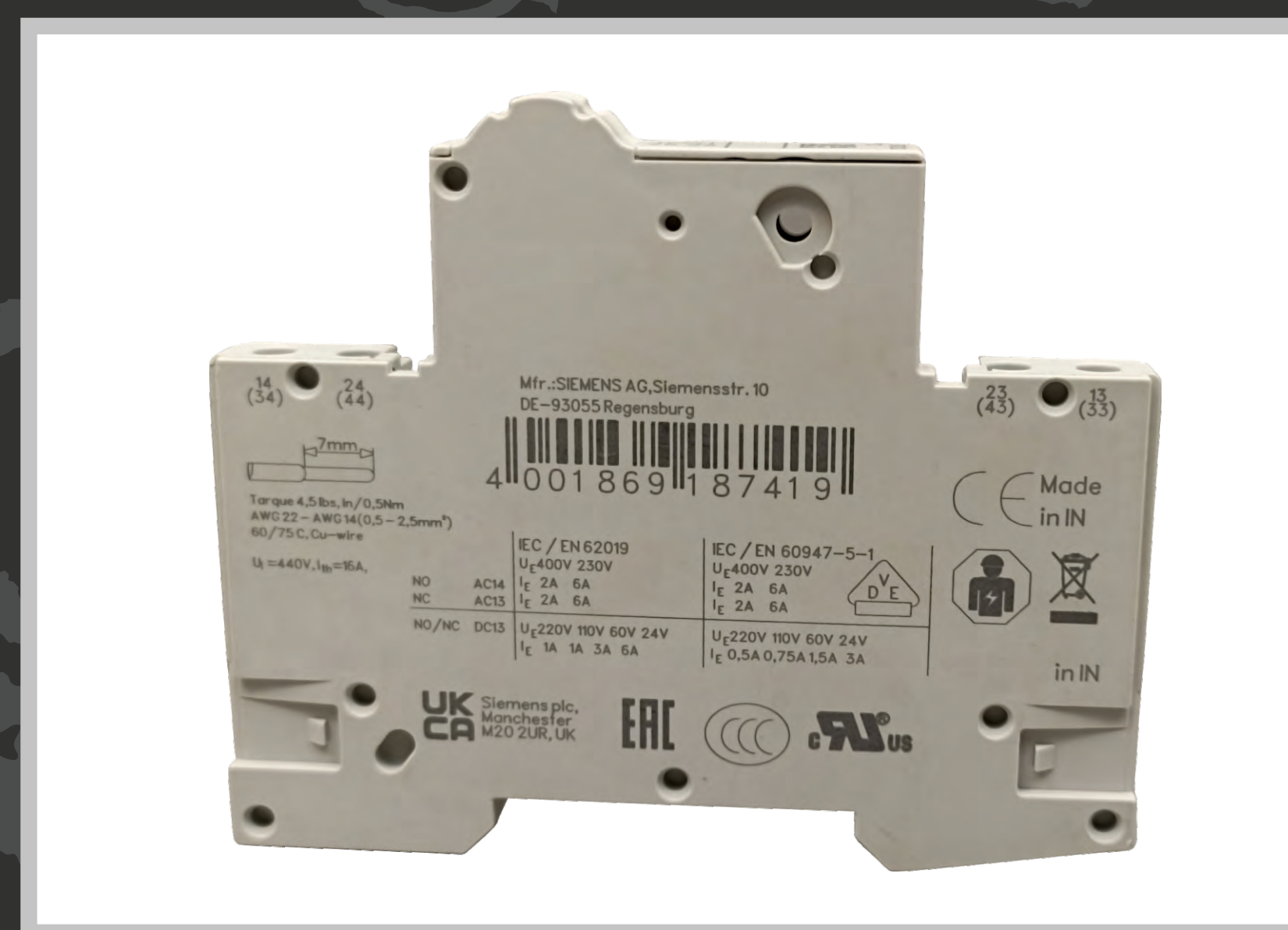
COLD LASER PROCESSING



COLD LASER MARKING FOR PASSIVATION & CORROSION RESISTANCE



Marking & Drilling on Catheter



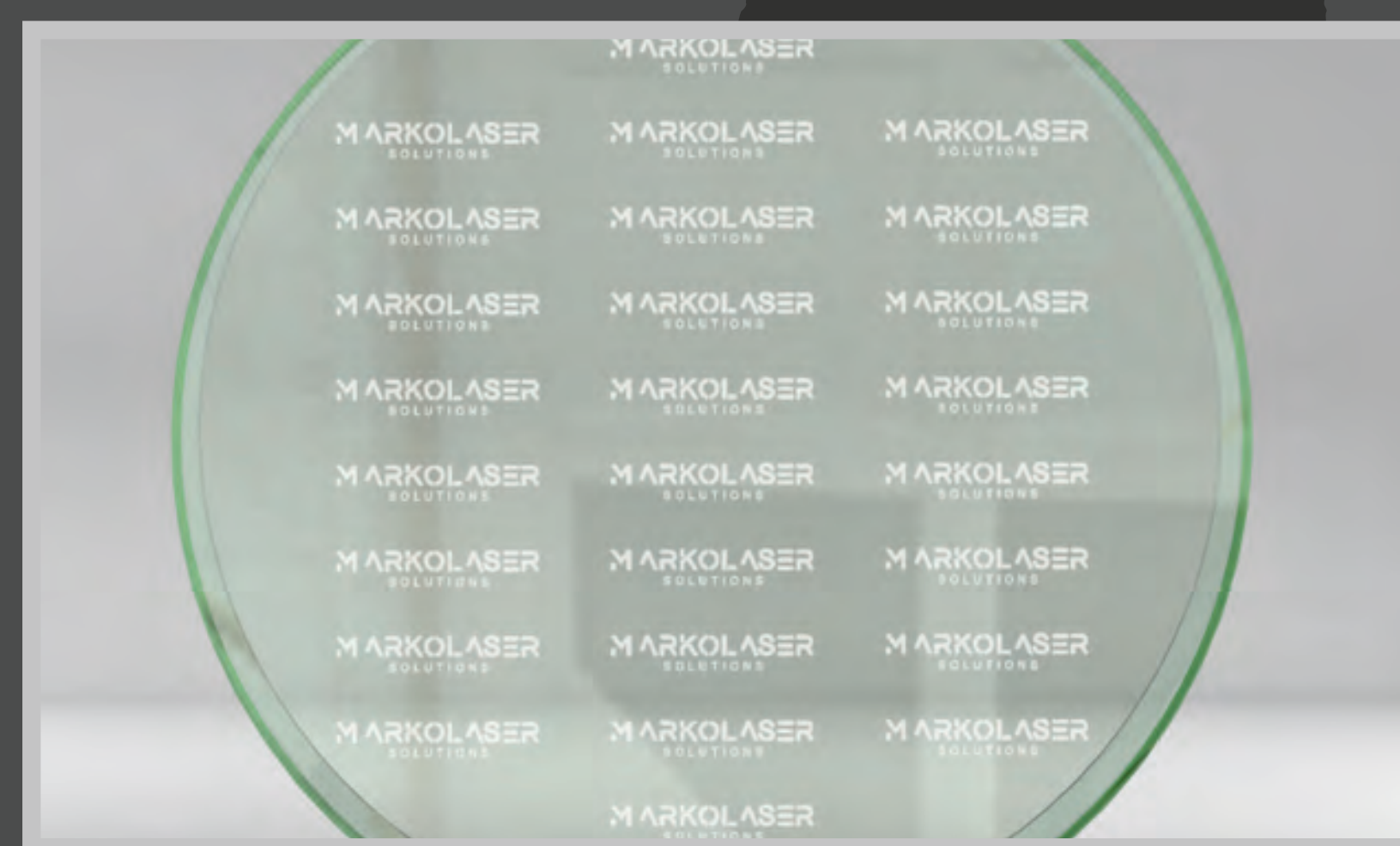
Electronics & Semiconductors

UDI Marking as per GSI, HIBCC & ICCBBA

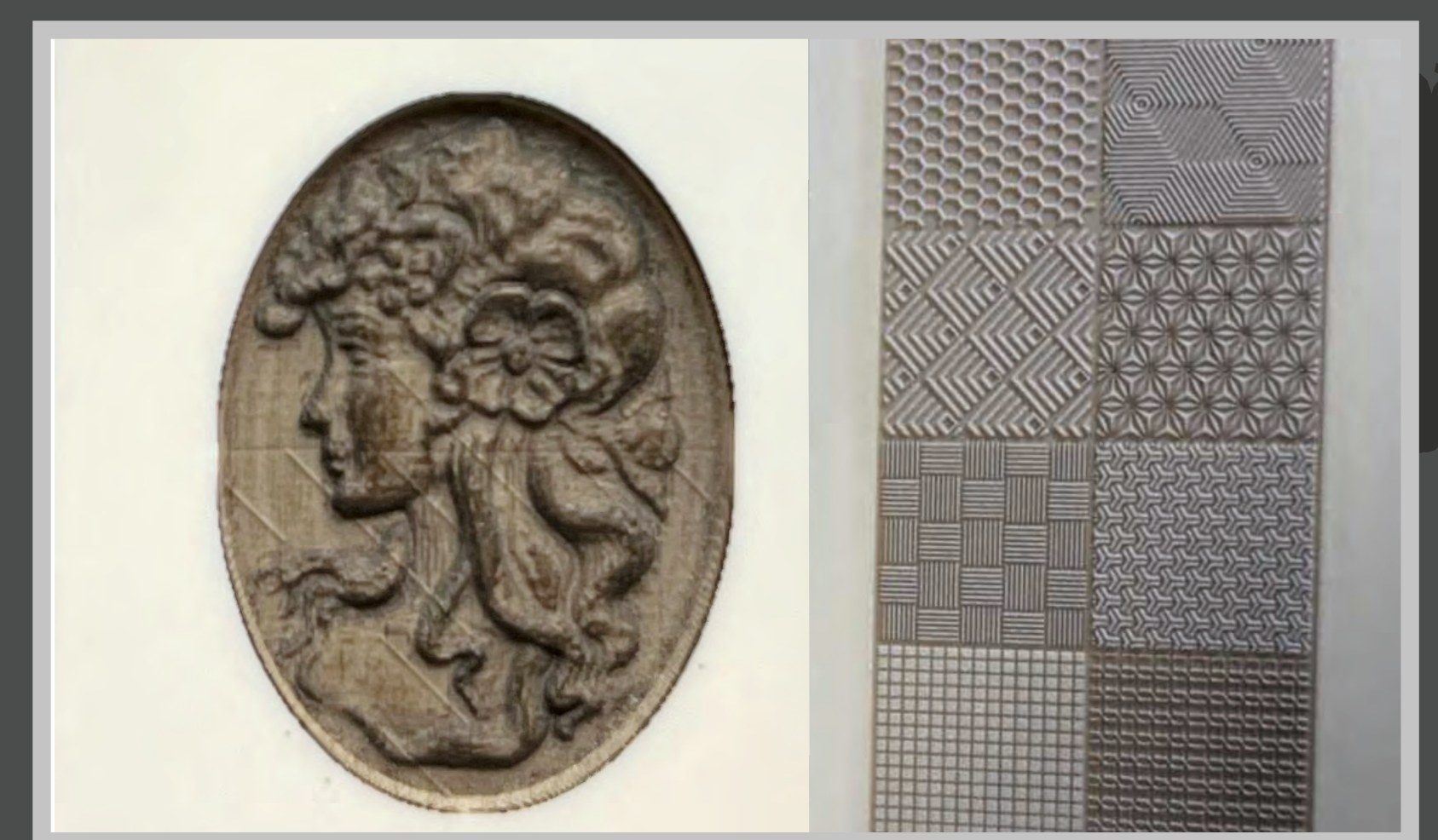
Other Industries Where UV Laser is a Game Changer



Jewellery



Glass

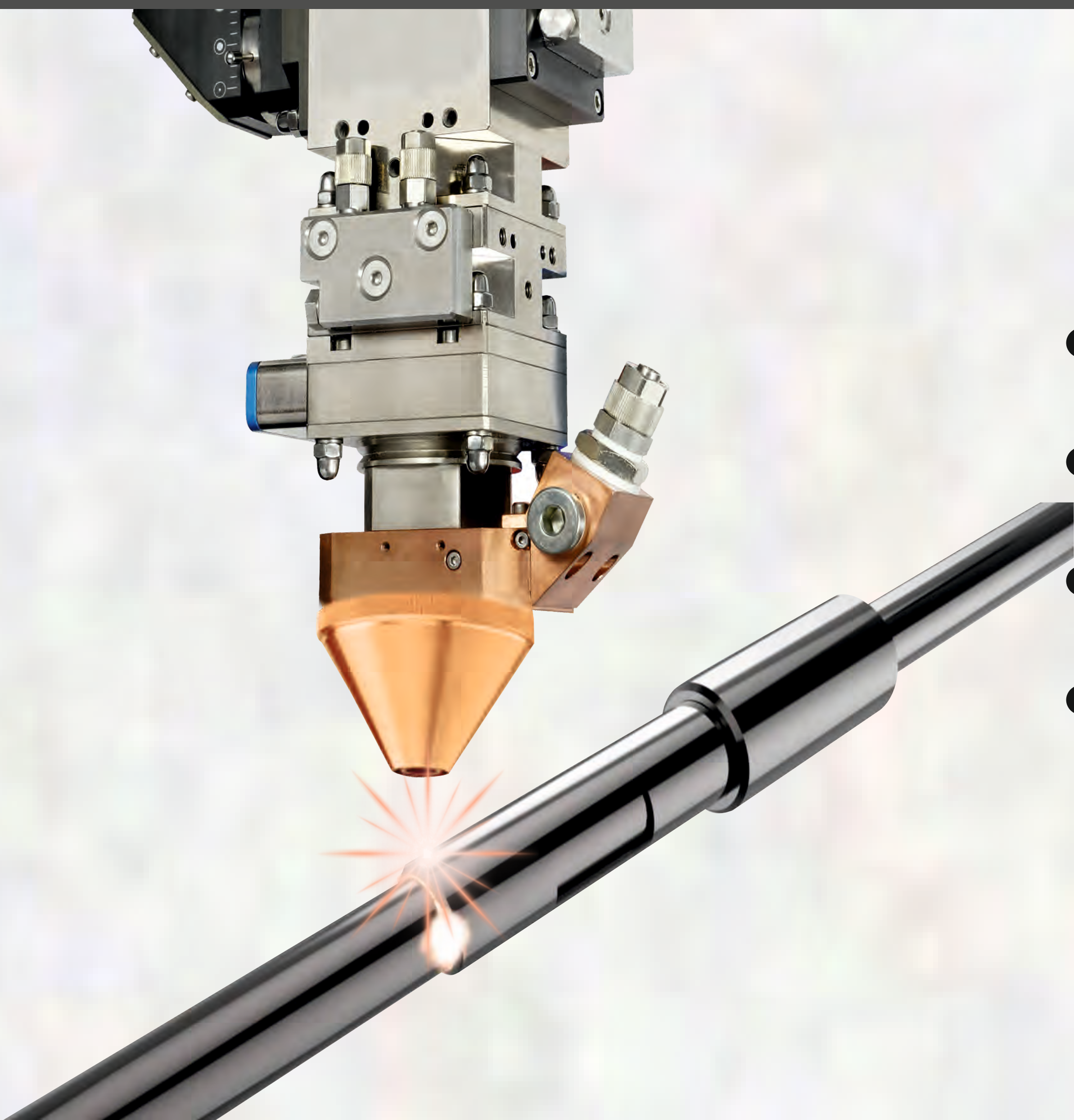


Special Ceramics

BENEFITS AT A GLANCE

- High Absorption Rate Allows it to Perform “Cold Marking” i.e. Laser Processing with Less HAZ.
- Wide Range of Material Interaction Such as Glass, Ceramics, Reinforced Polymers Including Highly Precious Metals.
- Narrow Line Width & High Beam Quality Allows it to Perform Micro-Machining.

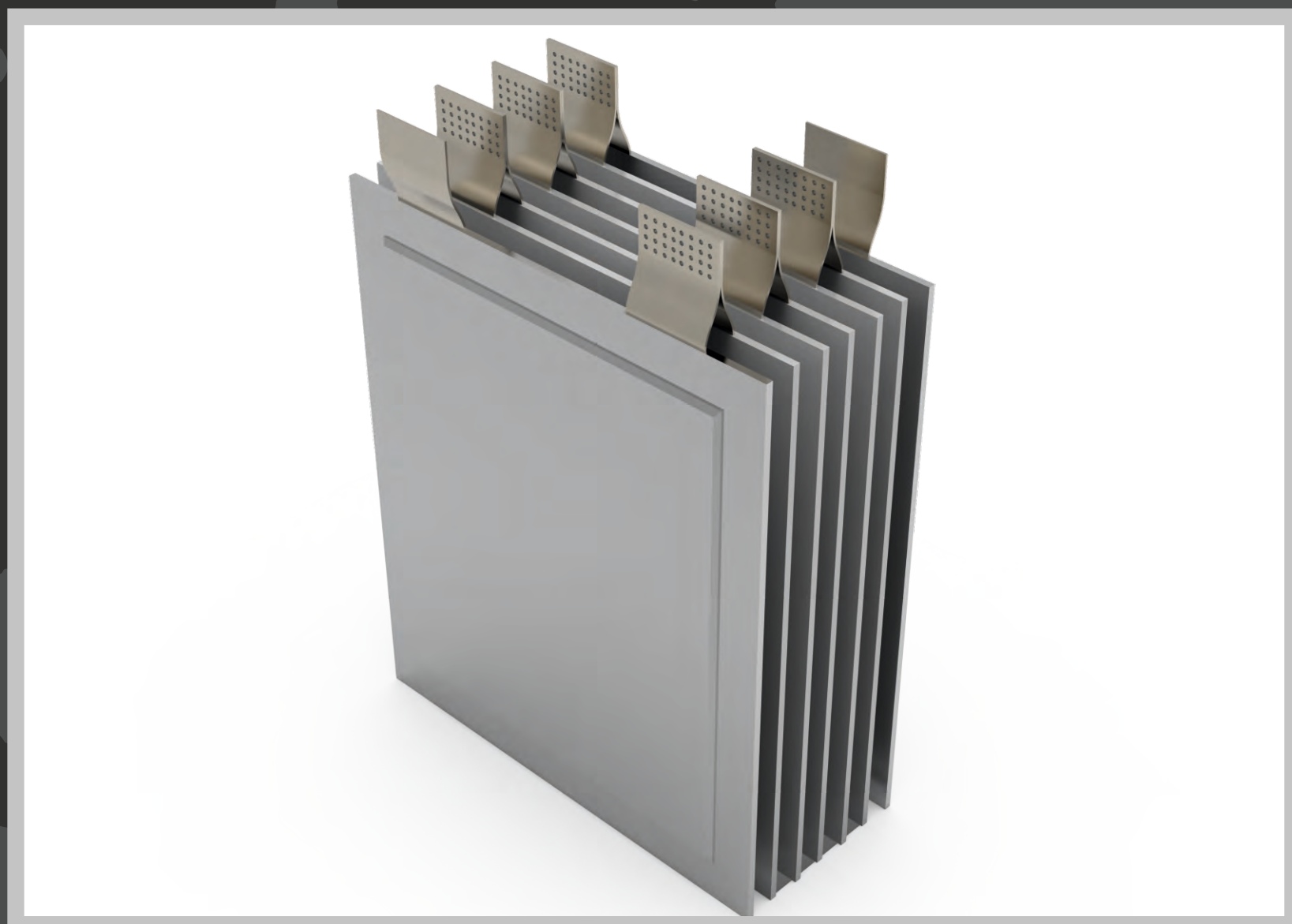
Aeronautical • Automotive • Electrical & Semiconductors • Glass • Medical



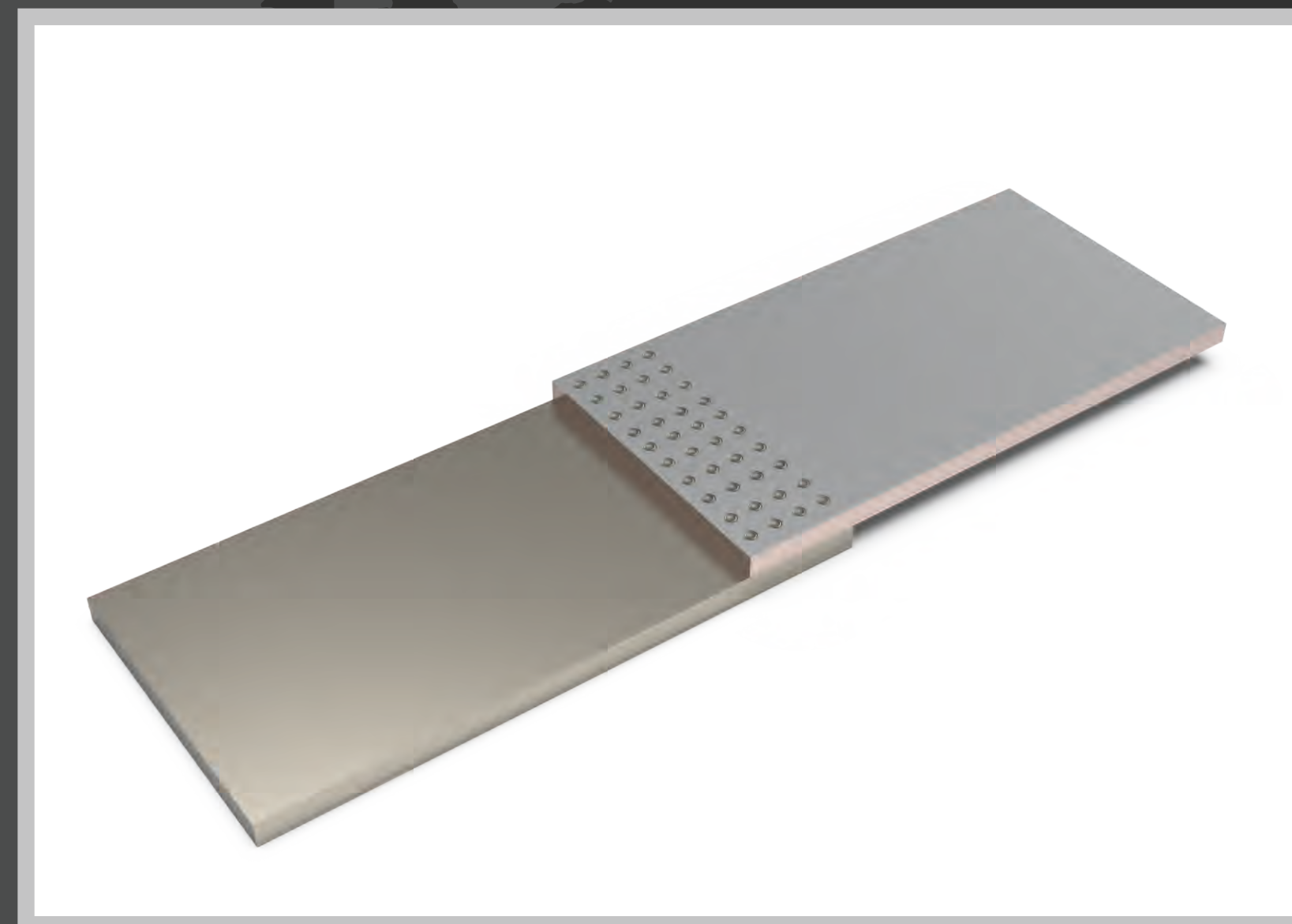
70 W-5000 W

- Less Heat Affected Zone
- Excellent Weld Quality
- Good Weld Strength
- Automated Process Allows Excellent Repeatability & Accuracy

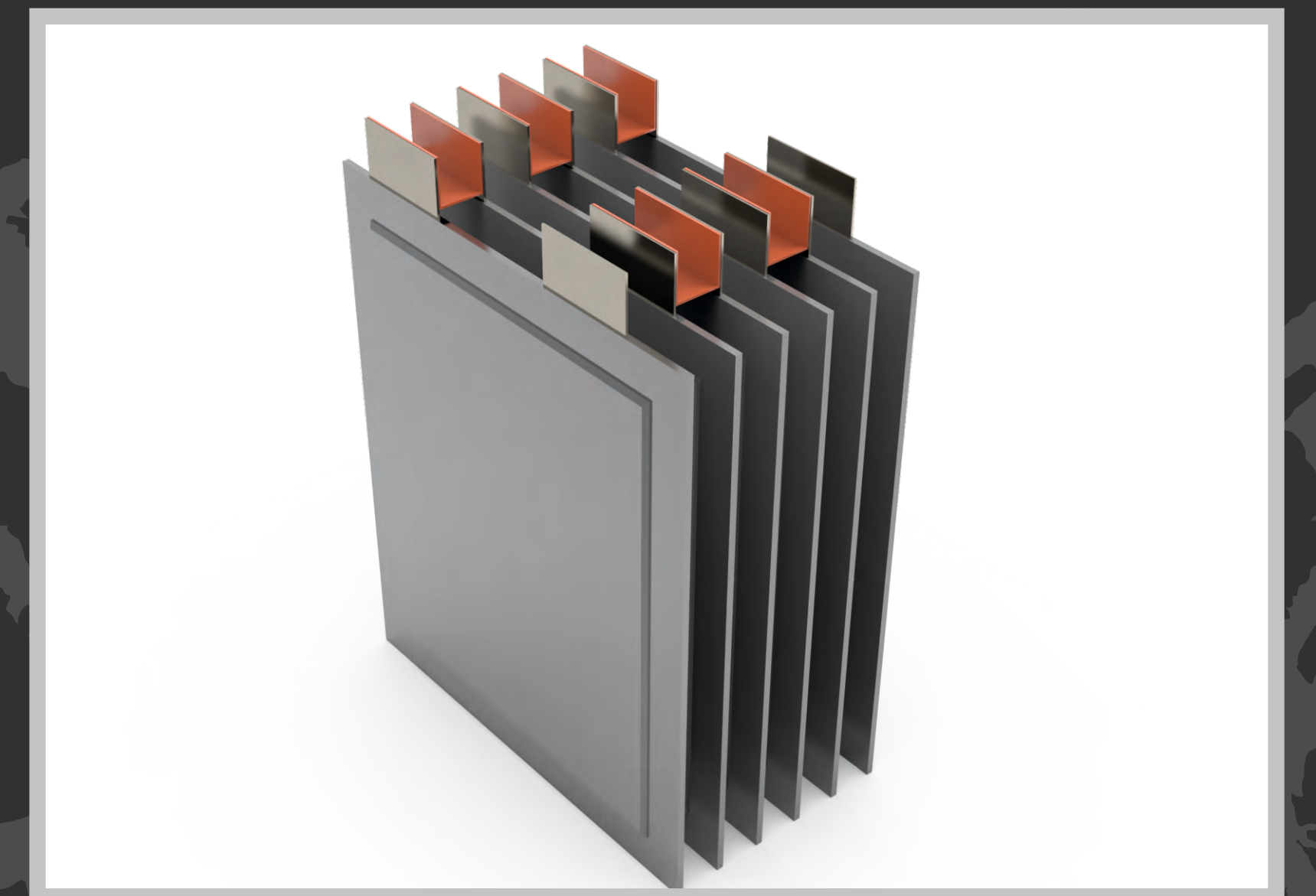
LASER WELDING ON EV BATTERY PACKS



Tab to Tab Welding



Foil to Tab Welding

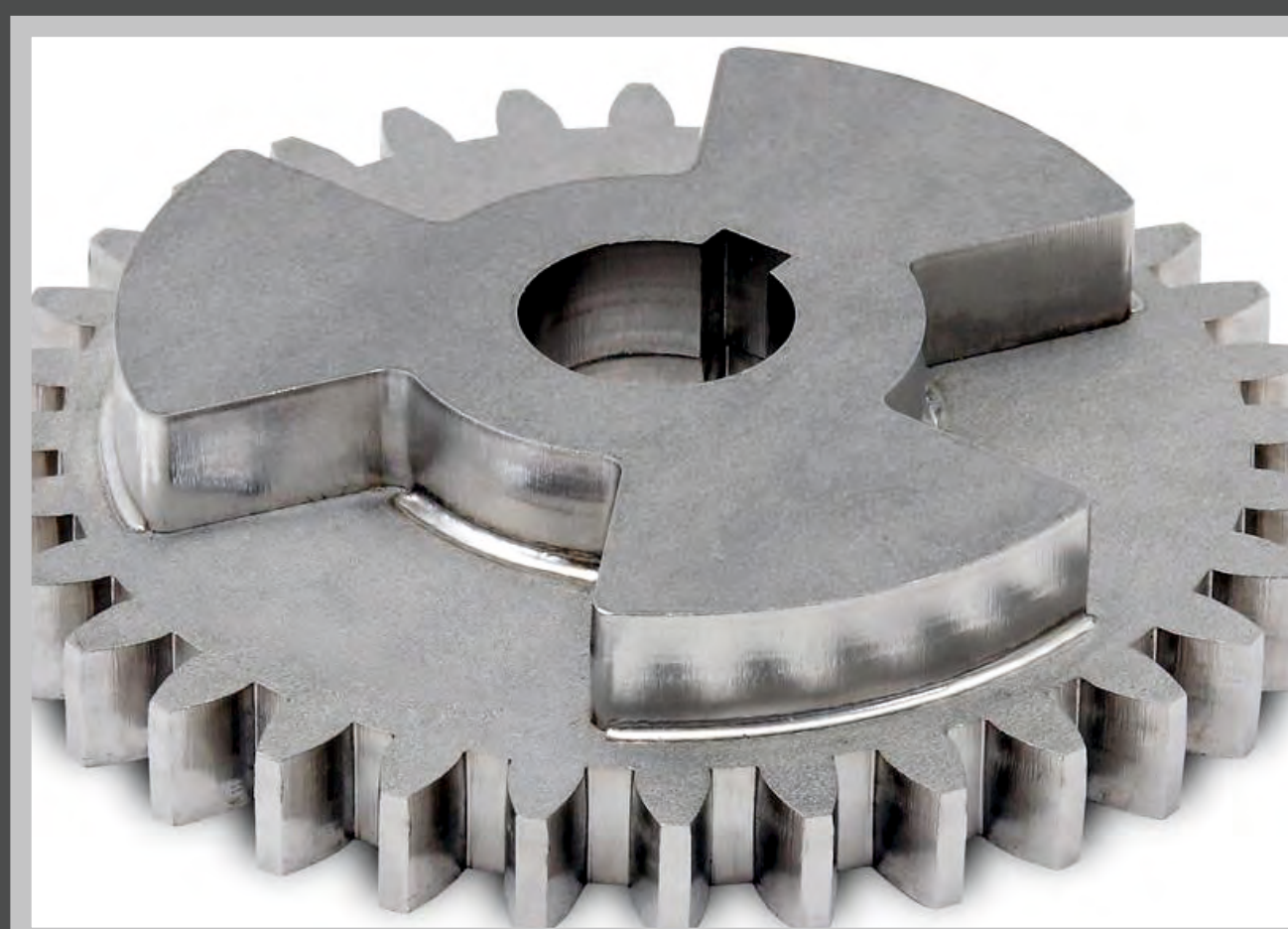


Tab to Busbar Welding

Customized Robotic, Gantry, Rotary, Linear etc.
CAD-CAM/Automation Integration of 100-6000W IR Laser as Per Application.



Laser Spot Welding on Li-ion Battery Tab



Keyhole Welding on Automotive Gears



Plastic Laser Welding

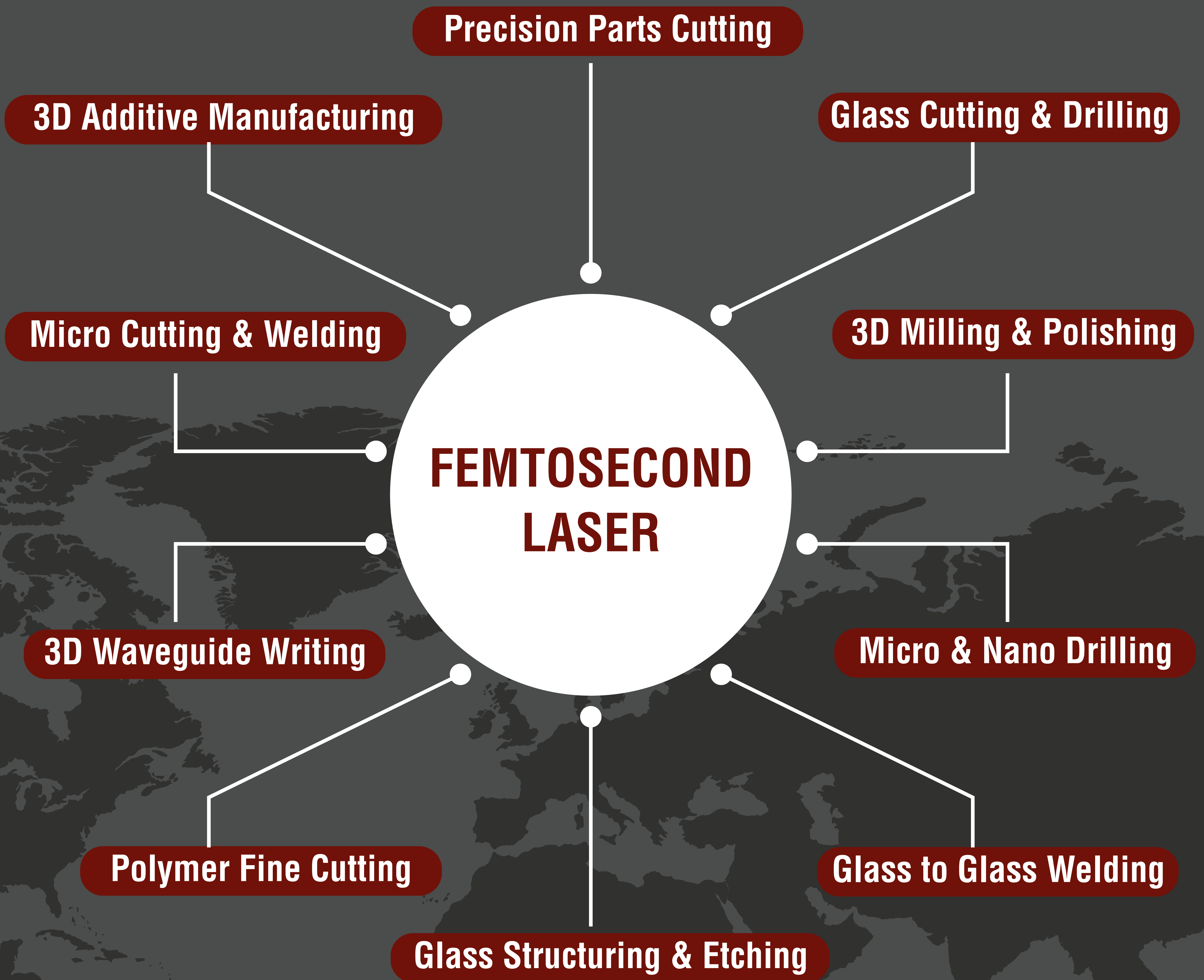


Heat Conduction Welding on Medical Implants

LASER WELDING TECHNOLOGY/TYPES

Spot & Seam Welding • Scanner Welding • Wobble Welding • Laser Welding of Plastics/Polymers • Deep Penetration/Keyhole Welding
• Heat Conduction Welding

Aeronautical • Automotive • Electrical & Electronics • Tool & Mold Making • Medical Solar • Laboratory & Research Centers



ADVANTAGES OF FEMTOSECOND LASER

- Non-Thermal Processing
- Small HAZ
- High Precision
- Controllable Surface Texture
- Reduced Friction & Wear
- High Surface Quality
- Corrosion Resistance
- Homogeneous Surface Modification

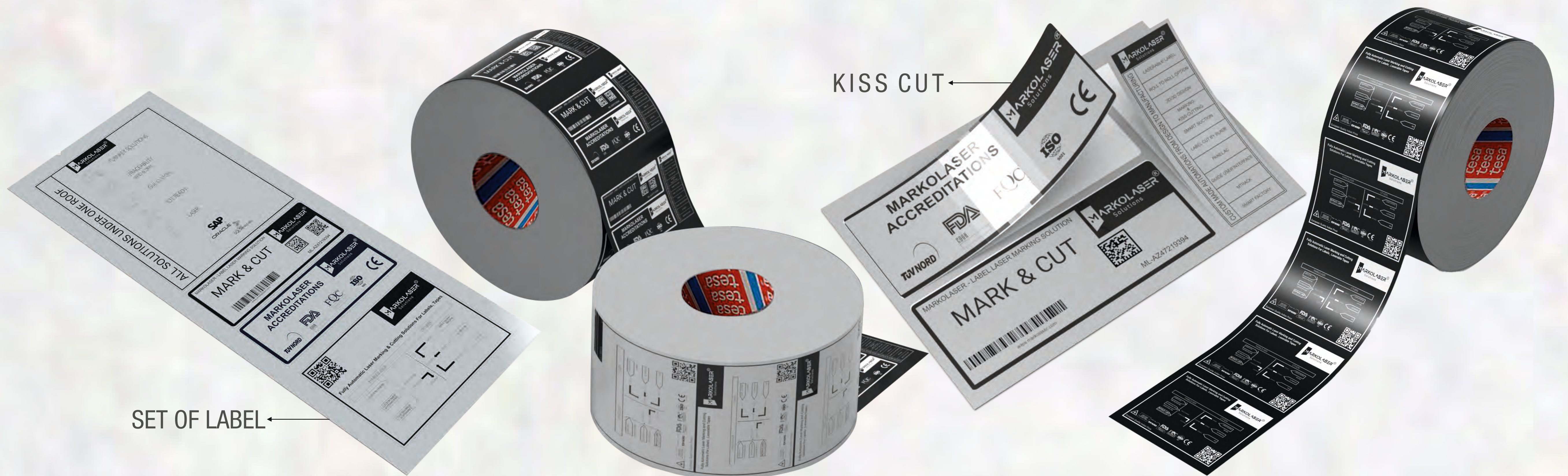


Display Applications

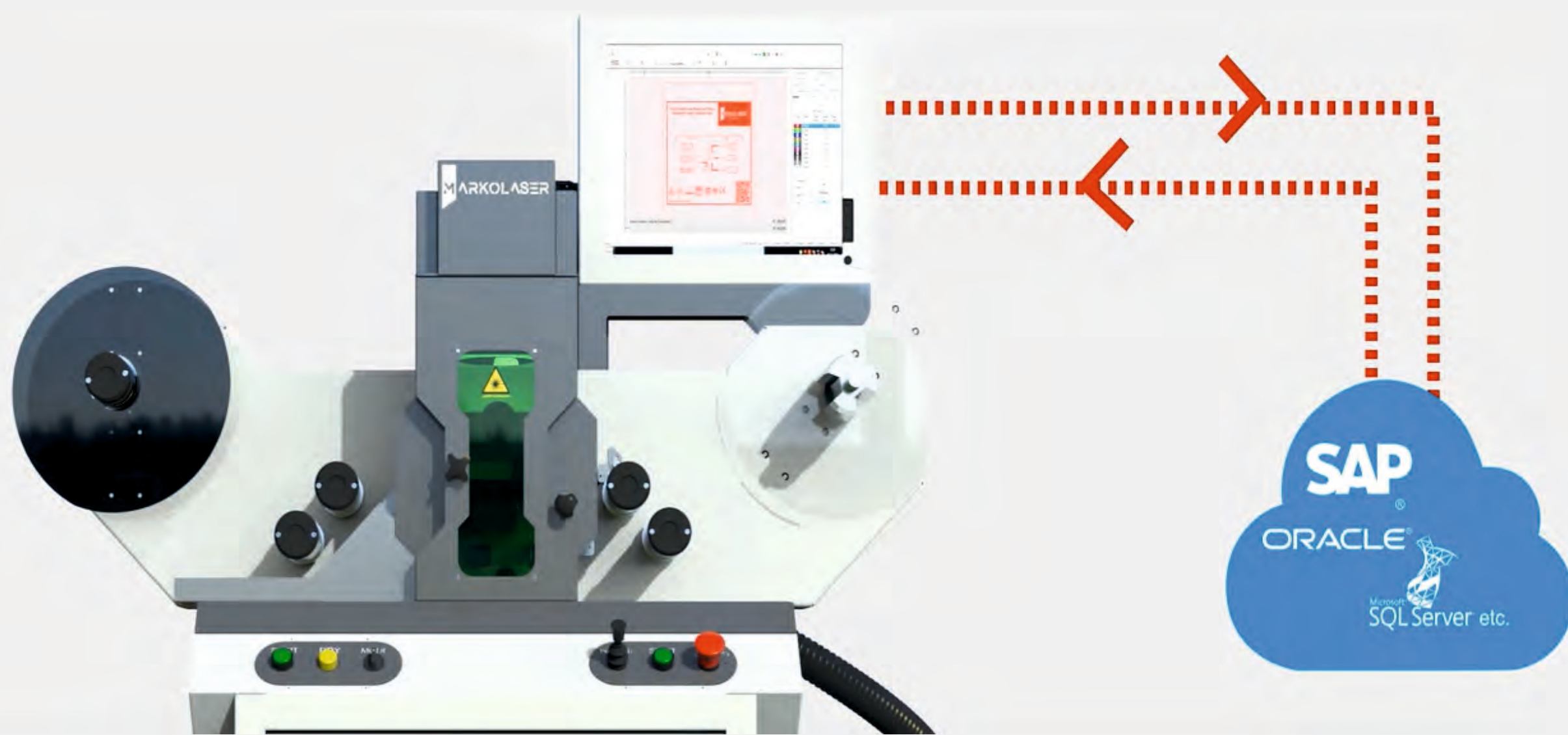
Aeronautical • Automotive • Electrical & Electronics • Tool & Mold Making • Medical Glass • Laboratory & Research Centers

MARKING, KISS CUTTING, PARTING & DATA MANAGEMENT OF SPECIAL SECURITY LABELS ON **LABEL PRO**

EUROPEAN COMPONENTS SELECTED CAREFULLY



MTRACK[®] Traceability Solution



Benefits at a Glance

- Marking, Kiss Cutting & Cutting in One Process.
- High Definition (HD) Marking Resolution.
- Flexibility in Marking & Label Size Cutting (e.g. Sequential Serial Numbers).
- Realization of Micro Marking (e.g. 2D Barcodes).
- Class 1 Laser Marking Chamber with Integrated Fume Extraction System.
- MTrack[®] Label Pro Software : Traceability & Data Management Software.
- IOT 4.0 Interfaces Necessary for Programming & Data Transfers Available.
- Excellent Results on Double-Layered Acrylic Security Labels (NHTSA, EEC, GB, Complied Labels).
- Capable to Mark a Set of Labels According to Requirement.

Areas of Applications

Automotive, Bikes, Aeronautical, Motors, Drivers, Electronics etc.



FLATBED UV DIGITAL PRINTING MACHINES

Step into the Future of Printing with Farbajet UV Digital Printing Solutions



CMYK
CMYK (W)
CMYK (W) (V)
CMYK (LC) (LM)

RICOH

REVOLUTIONIZING PRECISION & QUALITY FOR INDUSTRIAL PRINTING & BEYOND

- Quality & Speed
- Static-Free Printing
- Silent Precision
- Effortless Setup
- Enhanced Protection
- Engineered for Various Substrate
- Stunning Photo-Realistic Output
- Perfect Output, Every Time
- Flexible Ink Configurations
- Time-Saving Digital Primer

ACRYLIC	WOOD	PLASTIC	LEATHER
GLASS & CERAMIC	ALUMINUM	PVC BOARD	FABRIC

WORKS BEST WITH FARBAJET UV DIGITAL PRINTING INKS

- Eco-Friendly & Efficient.
- Print Head Compatibility (Ricoh, Konica).
- Enhanced with Primers & Varnishes.
- Dishwasher-Resistant Durability.
- Post-Processing Ready.
- High-Resolution Precision.
- Outdoor Durability.



- Automotive • Electrical • Cosmetic • Architectural • FMCG • White Goods
- Signage • Interior Decoration

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INTRODUCING TRIEX

A Revolutionary Innovation. Designed to Address the Challenges of Precision, Speed, & Adaptability, These Machines Redefine Efficiency. Whether You Need to Print Large Parts or Achieve High-Speed Output, Epic Triex is Engineered to Deliver Exceptional Results.

SALIENT FEATURES & ADVANTAGES

- 3 Colour Machines Static Printing Advantage
- Enhancing Accuracy & Sharpness in Printing
- Printing Large Parts With Ease
- Programmable Print Motions
- Automation Ready
- Reducing Errors & Waste
- TCS - Tape Cleaning System (Optional)

Patent Pending No.
202411052257



Cosmetic Industry



Sports Industry



Toy Industry



Watch Industry



Tool Industry



Automotive Industry

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