



We are ACSYS

Your Partner for
Advanced Laser Solutions

Over 20 YEARS OF PASSION FOR LASERS

Ardalan Masoumi

Business Development Manager of ACSYS Lasertechnik GmbH



LASER SOLUTIONS PASSIONIST

Passion for high precision Lasers and Laser based solutions since 2008



TEAMPLAYER & NETWORKER

Responsibility internal sales, customers and partners, as well as the further solid development of ACSYS strengths in the different markets



DIGITALIZATION & SUSTAINABILITY

Two of my current hobbyhorses, always also with strong reference to laser technology



OVERVIEW

22. APRIL 2024

01

ACSYS at a glance

02

Laser Applications for all industries

03

Product Portfolio

04

Options, Extras & Customization

05

Your Benefits

06

Next Steps

ACSYS

AT A GLANCE





Who we are



Founded
2003



120
employees



2 national +
3 international
locations



2,300
machines
in various
industries



Headquarter in
Kornwestheim



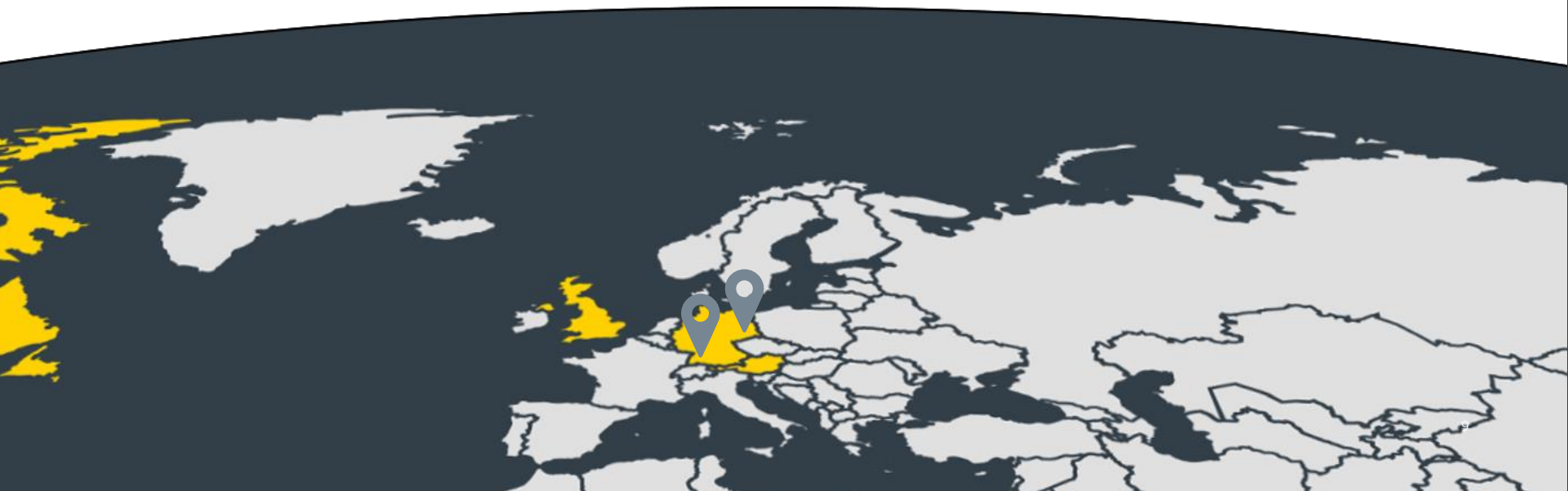
R&D and
production in
Mittweida

Where we are

2x national Locations

Kornwestheim

Mittweida



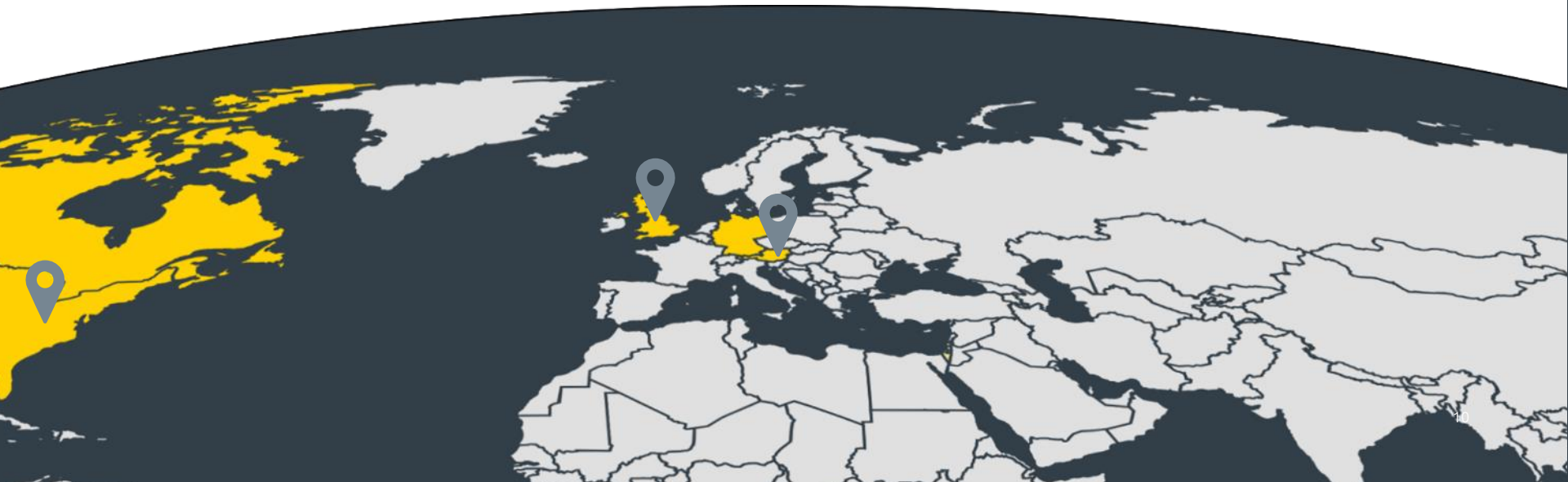
Where we are

3x international Locations

USA

United Kingdom

Austria



Where we are

World-wide Sales & Service Network



ACSYS Team

Successful through continuous exchange with our customers.



REALIZE

Analyzing business and procedural processes is one of the essential foundations of our way of working.



UNDERSTAND

Findings from the analysis data form the basis for our practice-oriented solution approaches.



IMPLEMENT

We find the best possible solution from hardware and software and coordinate all components and processes perfectly with each other.



Core Values at ACSYS

01

TRUSTWORTHY

02

RELIABLE

03

COMMITTED

04

EXPERIENCED

LASER APPLICATIONS



What we do

Standard- and customized machines for high precision laser applications

LASERWELDING & LASERCUTTING

Precise spot and seam welding for metal and plastic as well as non-contact cutting process for the creation of complex geometries

LASERSTRUCTURING

Generation of microscopically roughened surfaces for new surface properties

LASERMARKING

Efficient and permanent marking of a wide variety of materials and workpieces

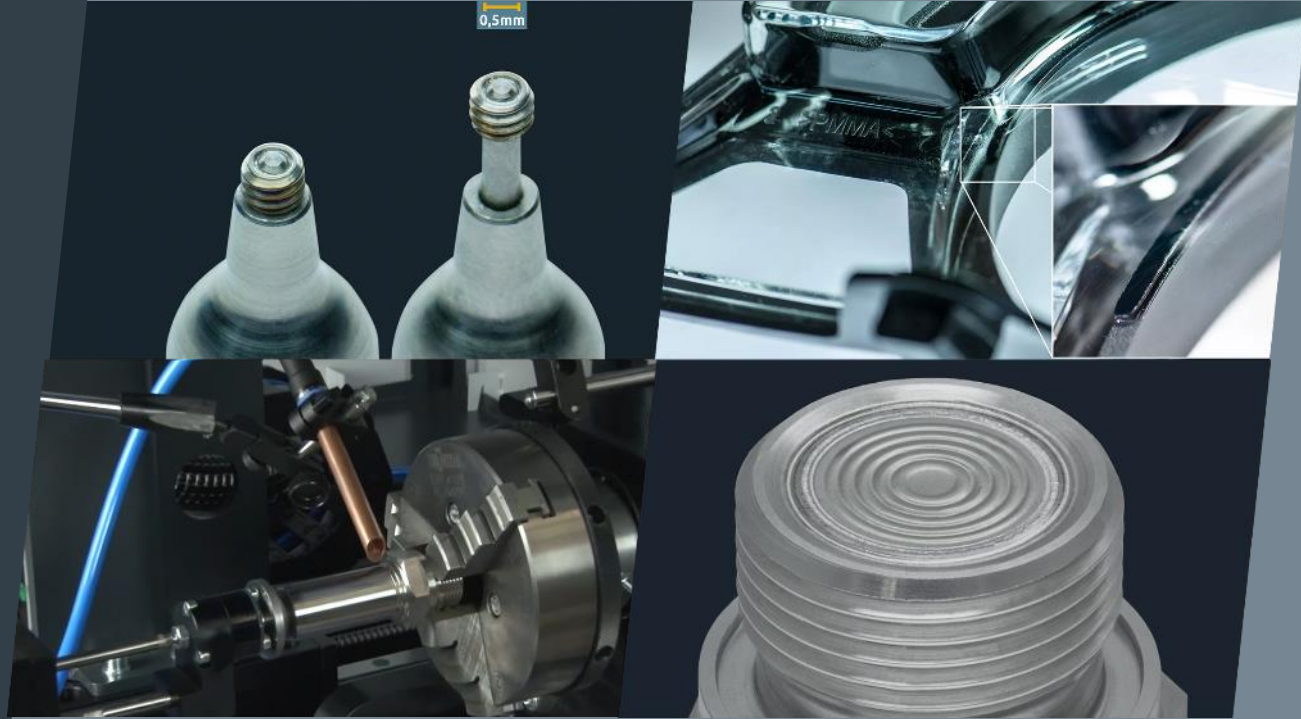
LASERENGRAVING

Completely non-contact and wear-free process for the layer-by-layer removal of material



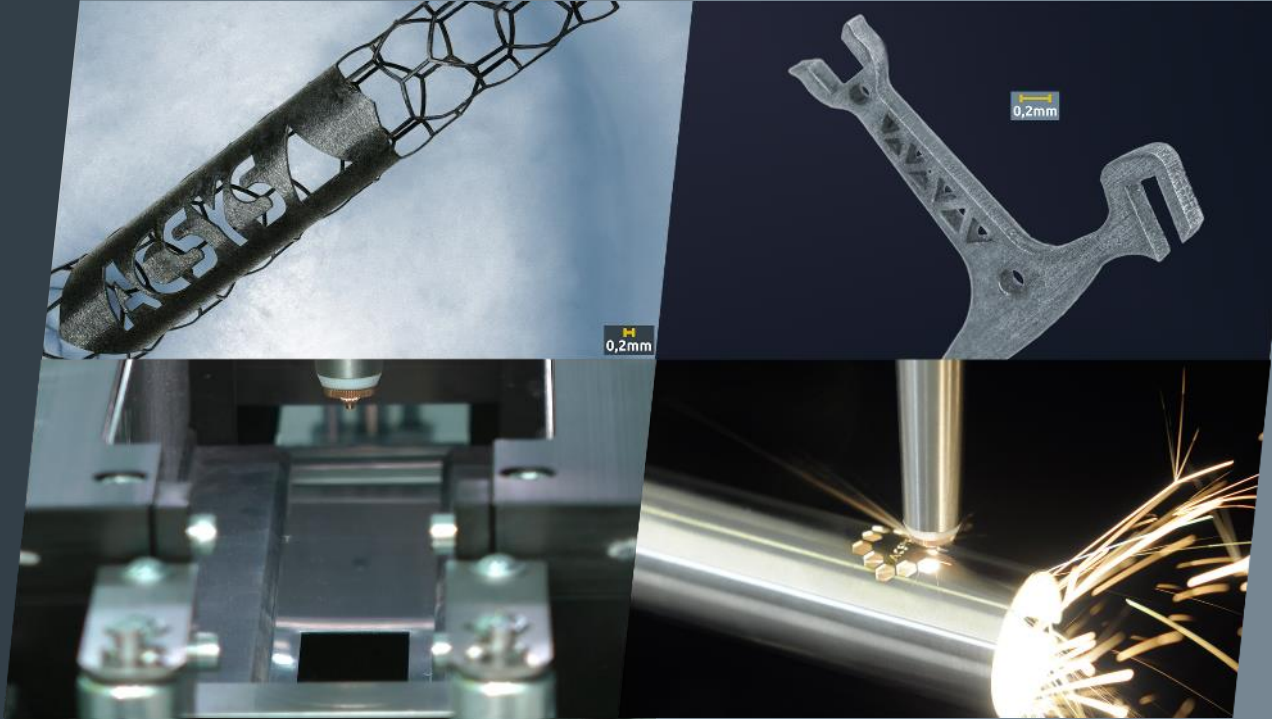
What we do Laserwelding

Precise spot and seam welding
for metal and plastic.



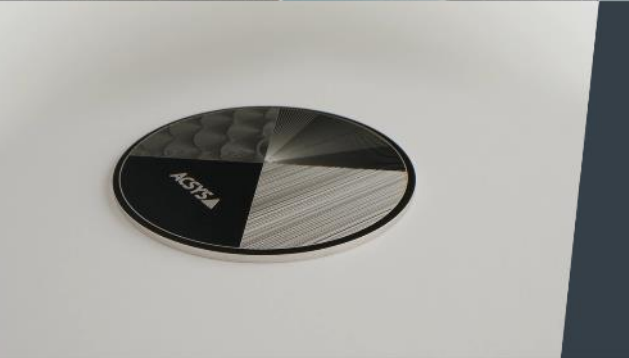
What we do Lasercutting

Non-contact cutting process for the creation of complex geometries.



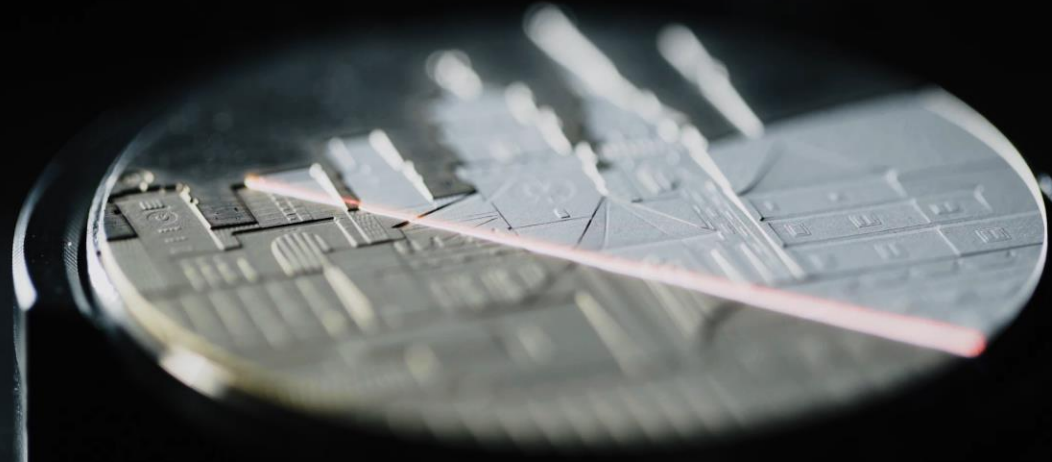
What we do Laserstructuring

Generation of microscopically
roughened surfaces for new
surface properties



PULSE FORGING[®] for smoothing and polishing

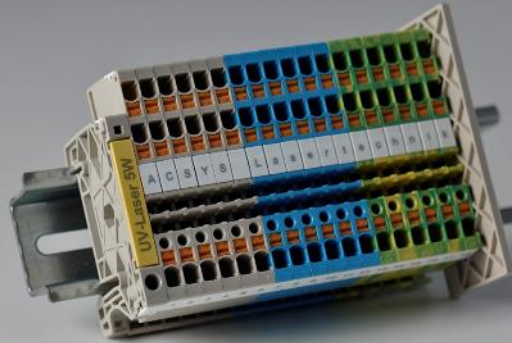
Patented Process (Pat. DE 10 2020 000 078 B3)



What we do

Lasermarking

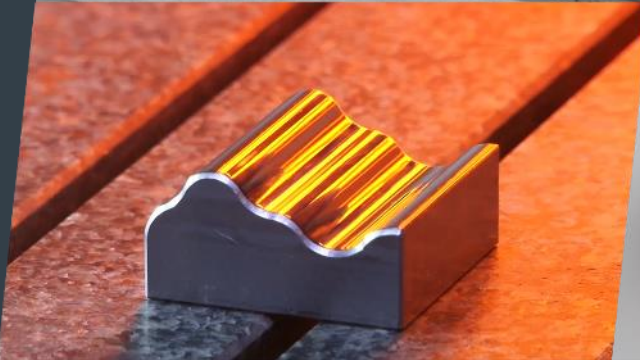
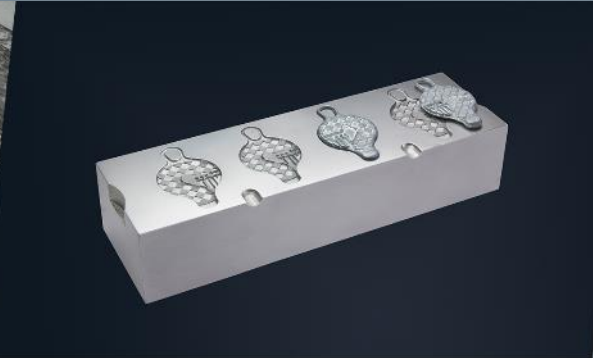
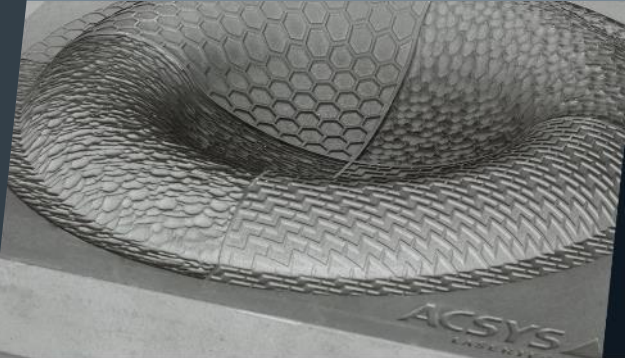
Efficient and permanent marking of a wide variety of materials and workpieces



What we do

Laserengraving

Completely non-contact and wear-free process for the layer-by-layer removal of material



PRODUCT PORTFOLIO



ACSYS Product Portfolio

High-end laser systems from small to large



PIRANHA®



BARRACUDA®



SHARK®



MULTISHIFT®



ORCA®

Products & Solutions

Discover the possibilities of laser systems and beyond



STANDARD + OPTIONS

High-precision laser solutions for engraving, marking, structuring, welding and cutting from table-top to large machining-center.

Multifaceted options to optimally meet your laser processing needs, like Automation, Vision Systems or Precision Packages.



CUSTOMIZED

We go the extra mile for you, if you have special requirements in software, hardware, accessories or process-wise.



MULTISHIFT® Highlights

All-in-one system for most demanding requirements



CO₂ Laser

**Vision System &
Optical Part Recognition**

Femto Laser



Robot Handling

Tray Transfer



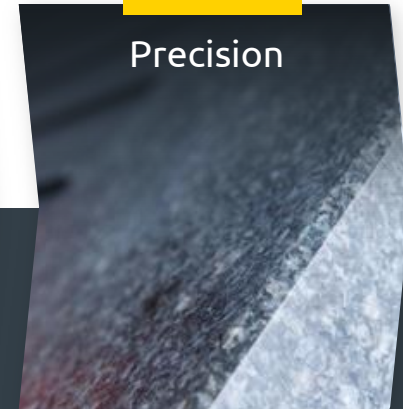
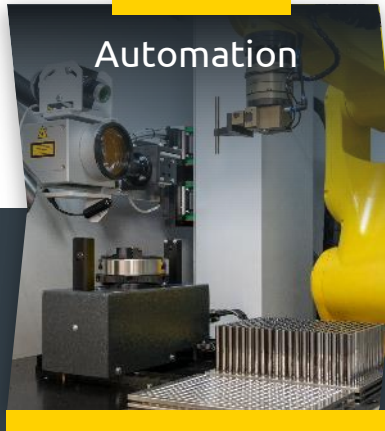
Pallet Tower

ACSYS ▲

OPTIONS & CUSTOMIZATIONS

Options and Customizations

Multifaceted extras for high-precision laser systems



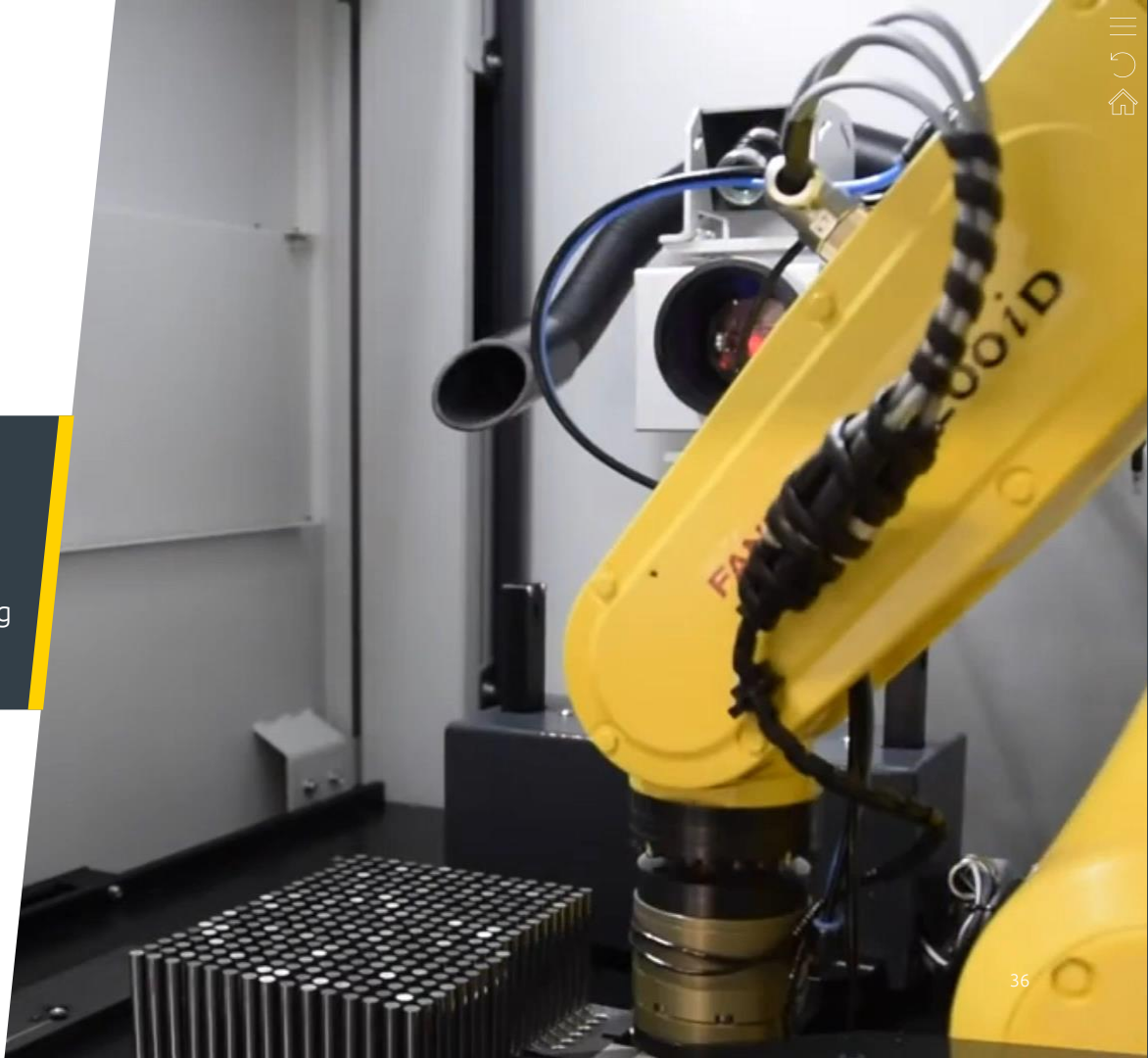
SOFTWARE

Automation

Solutions tailored to your requirements

ROBOTICS

Wide range of solutions from
Pick & Place to precision handling



Automation

Solutions tailored to your requirements

COIL FEEDER

Reliable, synchronized and with
minimum stress on the material



Automation

Solutions tailored to your requirements

PALLET HANDLING

Software, Hardware and Vision
Systems for maximum efficiency



Automation

Solutions tailored to your requirements

CONVEYOR BELT

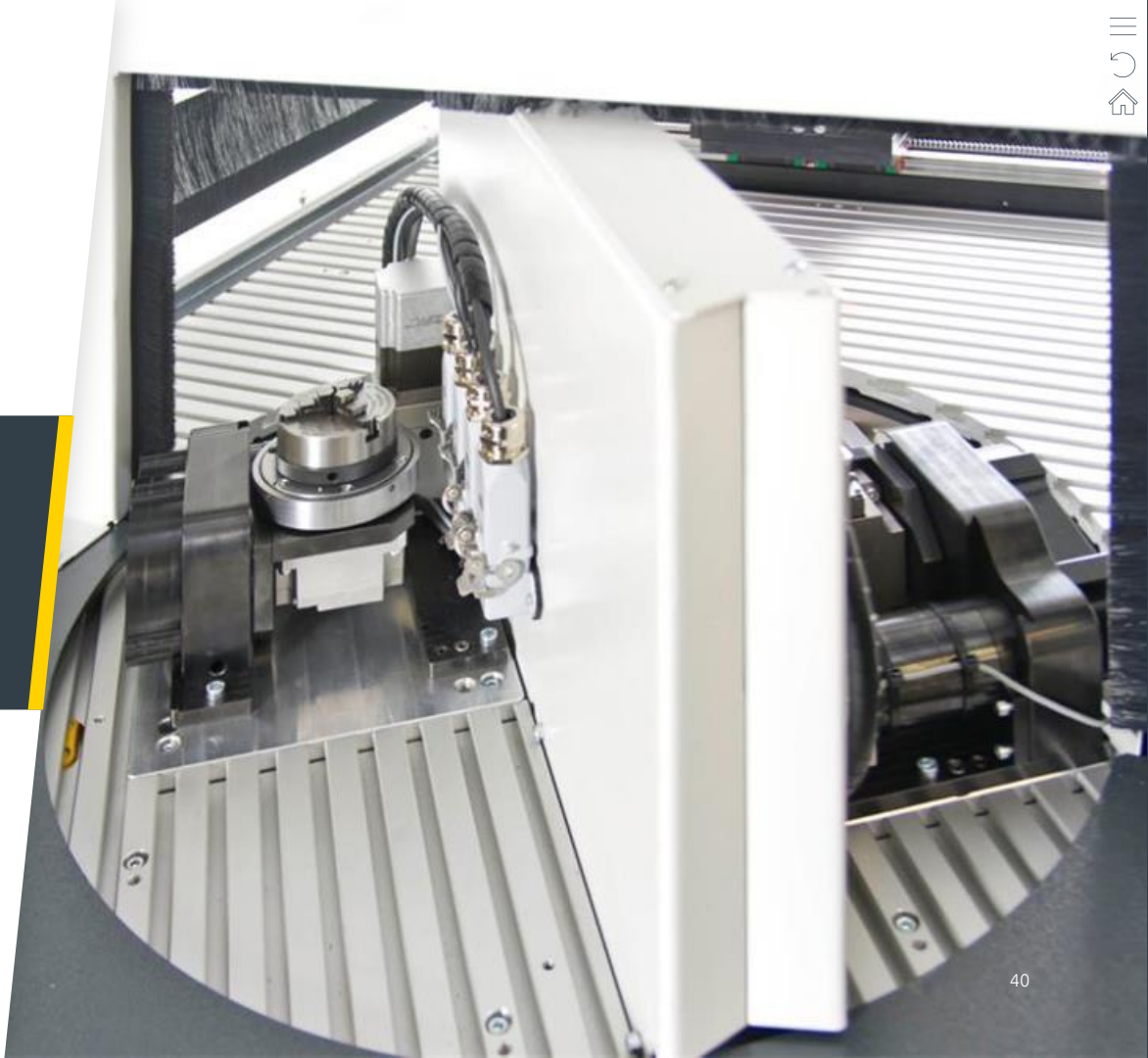
Flexibility and precision for moving palletized parts

Automation

Solutions tailored to your requirements

ROTARY TABLE

Parallel loading during laser machining to speed up the overall production process and increase efficiency.



Automation

Solutions tailored to your requirements

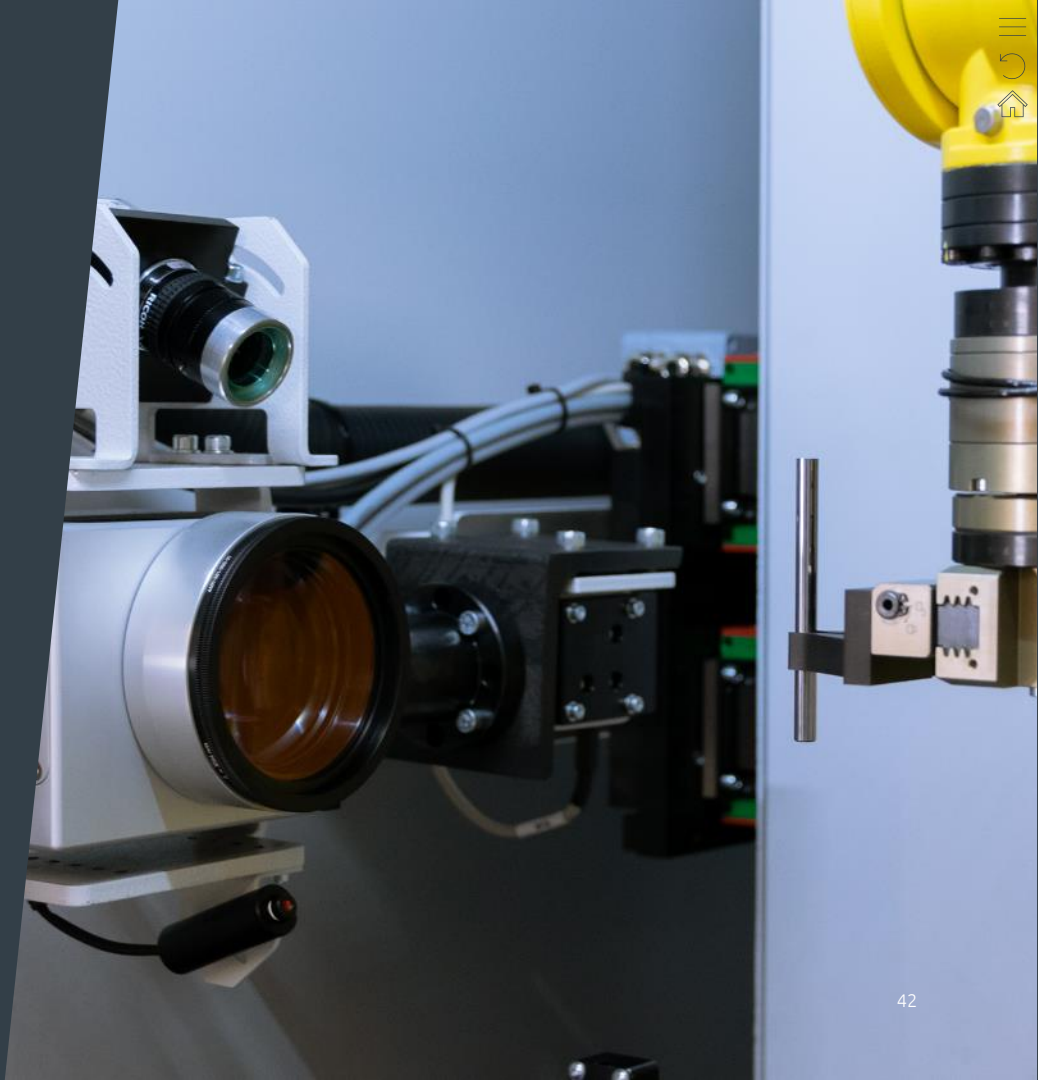
TAG MAGAZINE FEEDER

Accurately position stacks of standard or custom workpieces under the laser lens.



Vision Systems

Improved efficiency for your laser processes



Vision Systems

Improved efficiency for your laser processes

LIVE ADJUSTMENT SYSTEM (LAS)

Reduce set-up times and position even the smallest workpieces with this camera-supported system.

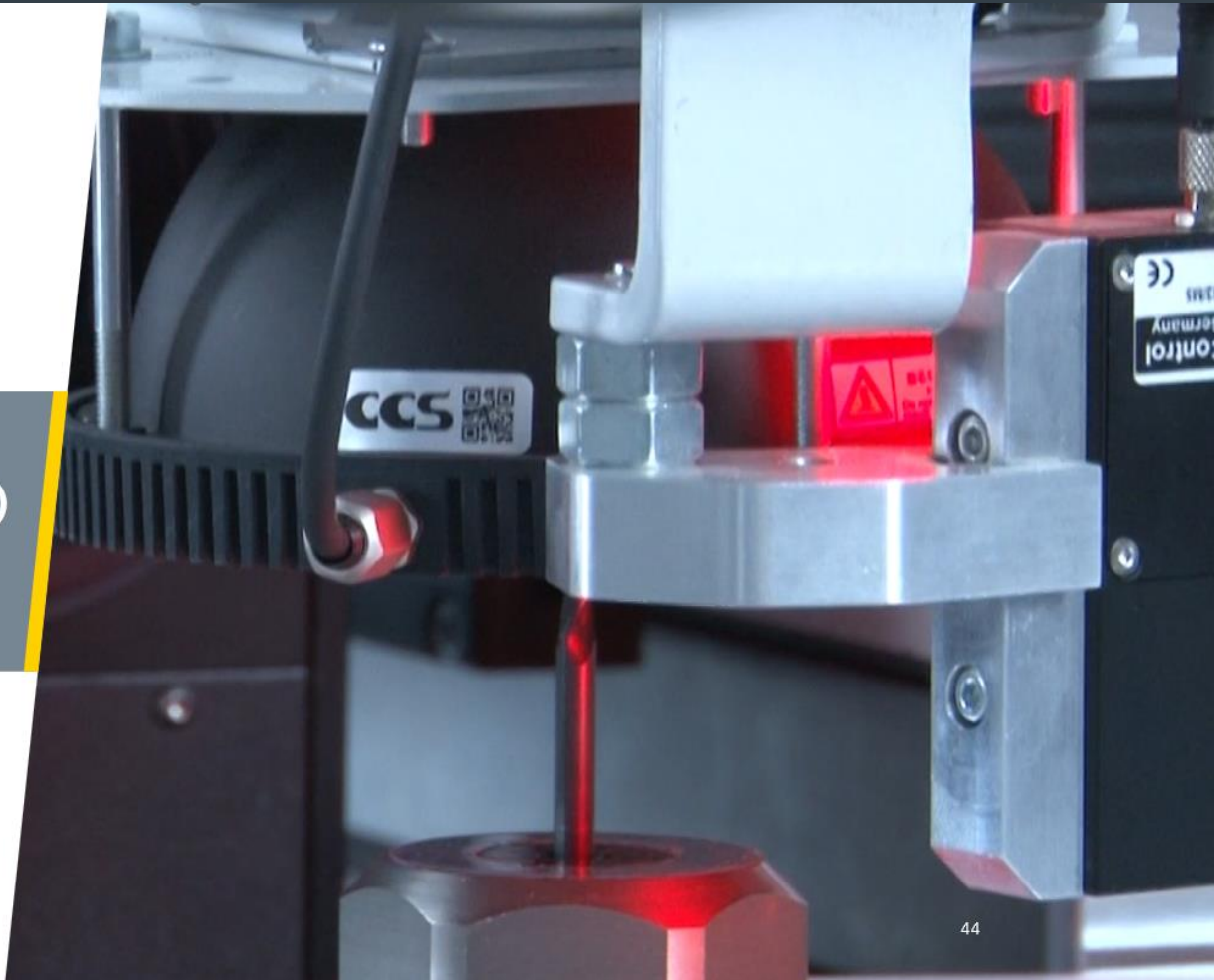


Vision Systems

Improved efficiency for your laser processes

OPTICAL PARTS RECOGNITION (OPR)

Determines the position and alignment of each individual workpiece for laser processing.



Vision Systems

Improved efficiency for your laser processes

RAPID AREA SCAN (RAS)

Brand new development for rapid
and precise digitization



Vision Systems

Improved efficiency for your laser processes

DISTANCE SENSOR

Enables the compensation of thickness & height fluctuations of your components

ACSYS 

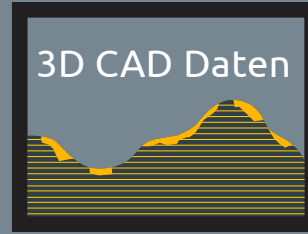


Vision Systems

Improved efficiency for your laser processes

DYNAMIC FOCUS CONTROL (DFC)

Ensures that the laser focus is constantly and dynamically tracked for 3D-geometries.



Productivity

Options for boosting efficiency and quality

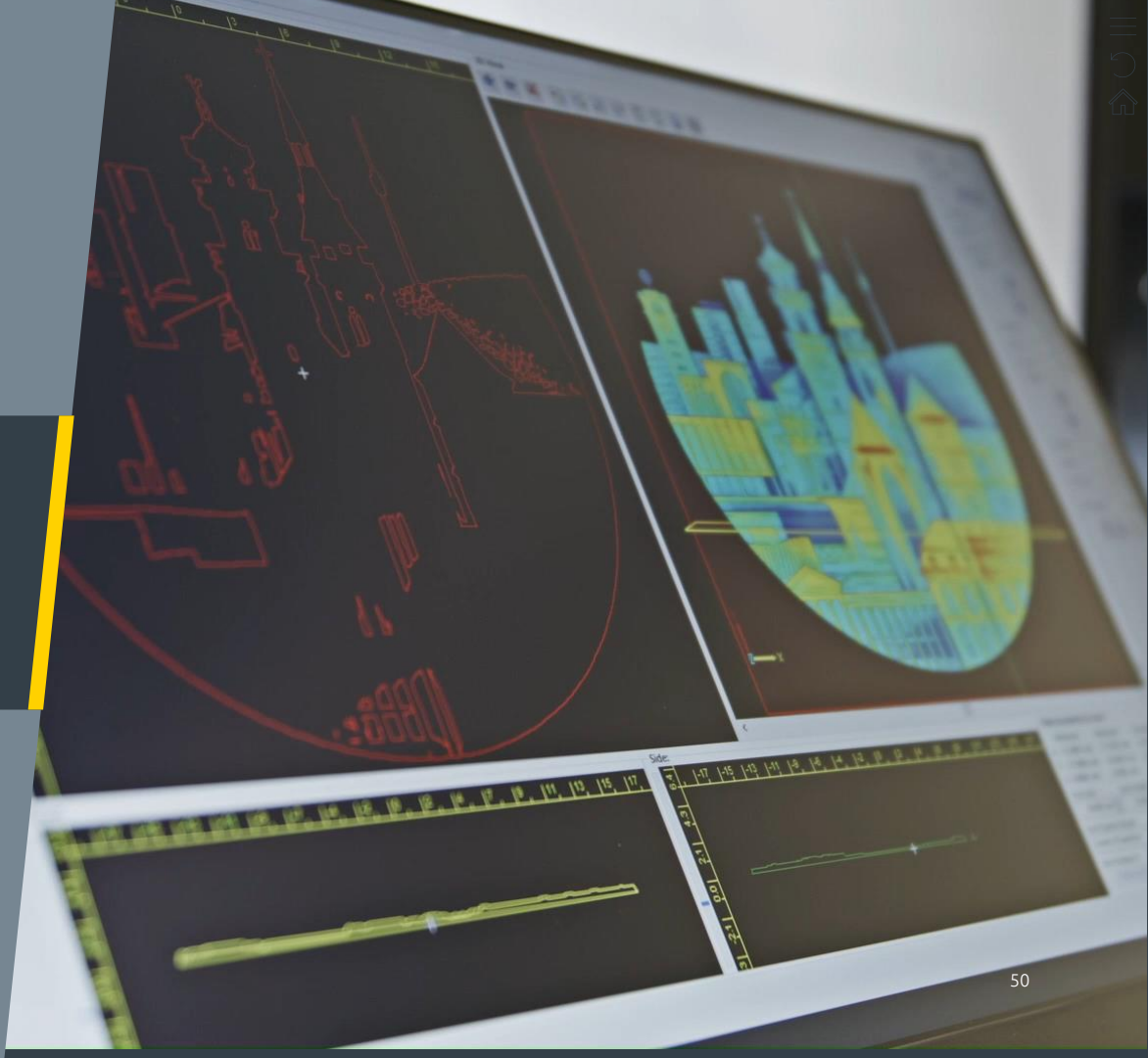


Productivity

Improved efficiency for your laser processes

3D ASSISTANT

3D Model is automatically sliced into layers for seamless processing





Productivity

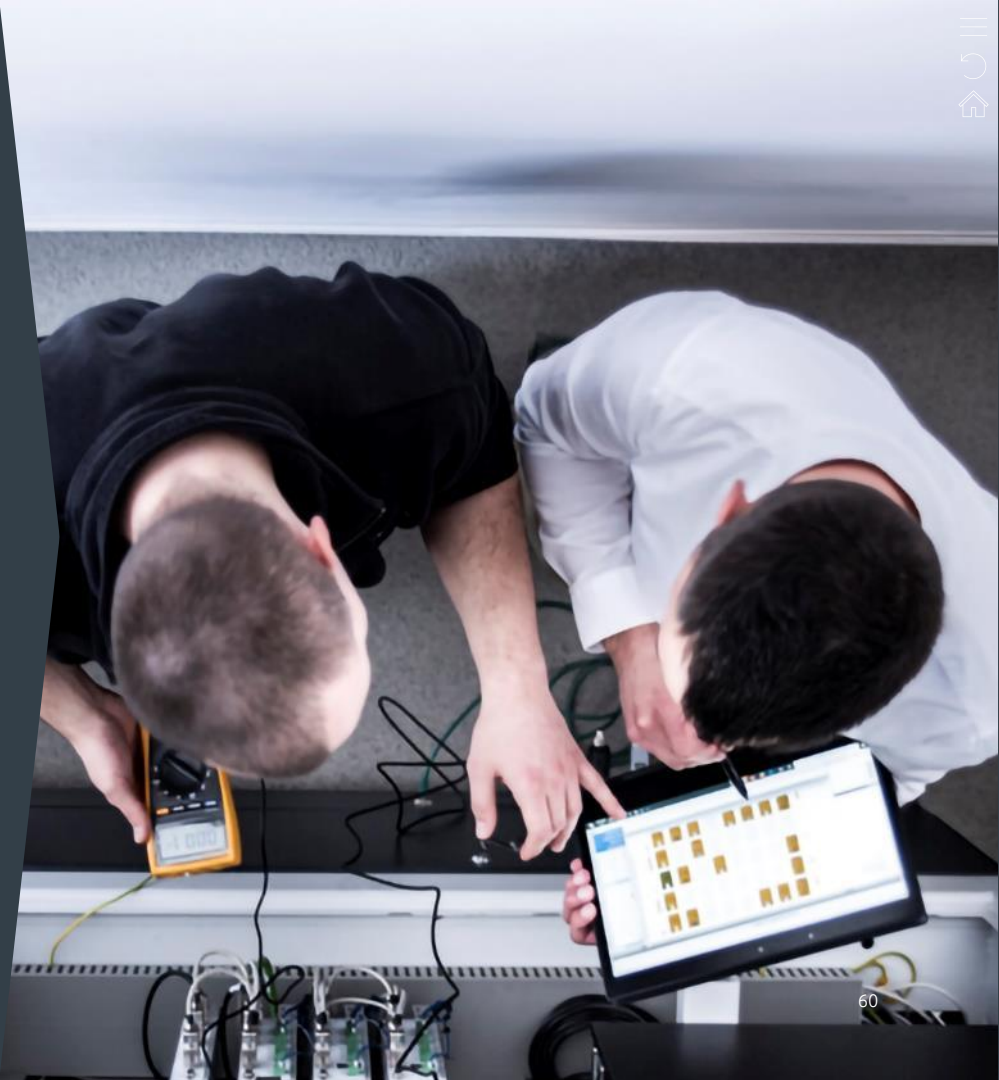
Improved efficiency for your laser processes

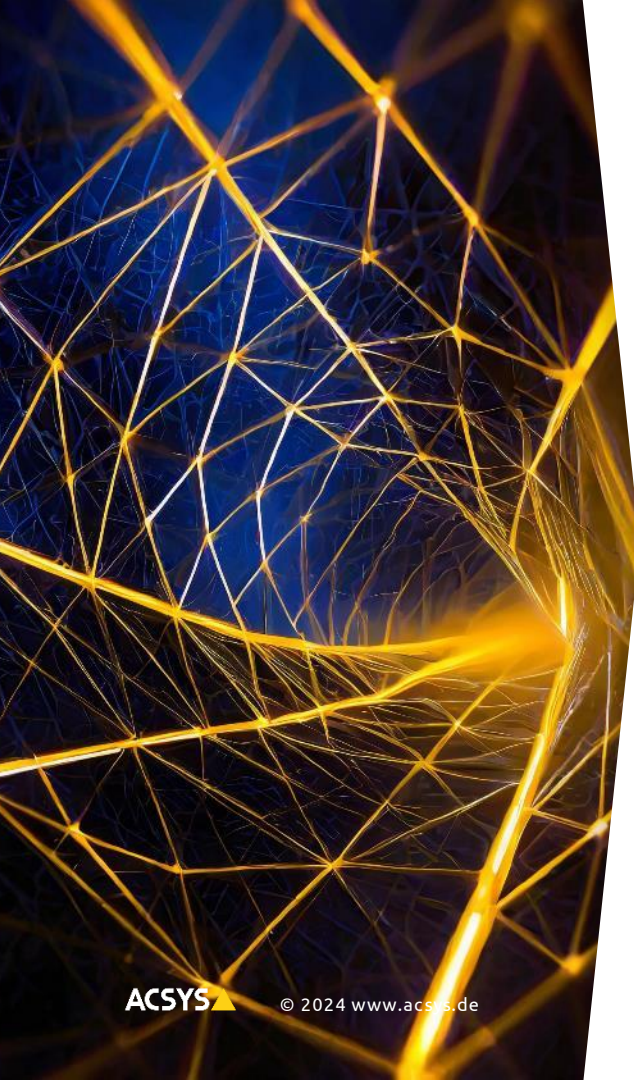
SWIVELING GALVO HEAD

Continuous horizontal and vertical swiveling of the galvo head for precise positioning.



SOFTWARE





Software for ACSYS Laser Systems

Smart tools to meet your individual requirements



In-House

Unique software for the most demanding applications



User-Centric

Streamlined UI to boost your productivity and facilitate your work



Automation

Customization for your individual automation solution



Database & API

Easily connect and interact with databases and external systems



Modular

Individual components tailored to enhance laser machining



Extensible

Ready to meet your specific layout and process requirements

AC-LASER Software

Digital solutions for individual requirements

VISION SYSTEMS

- Optical Parts Recognition
- Live Adjustment System
- Split Layout

DUAL LASER CONTROL

- Manage two laser sources
- Parallel operations
- Auto-calibration

MULTIPLE EXECUTION

- Intelligent batch processing
- Timed control
- Fully automated

AUTOMATION

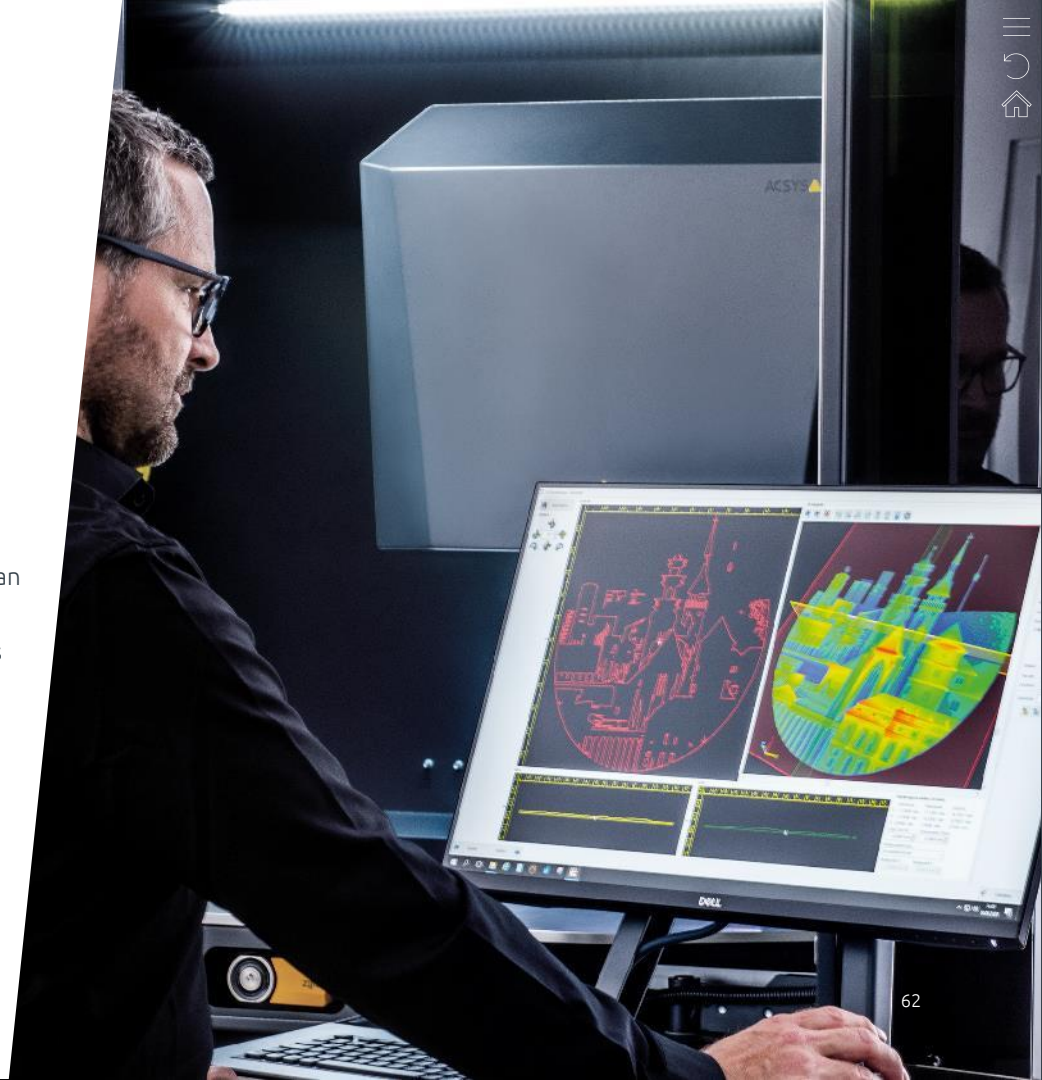
- Datamatrix / QR codes
- Batch processing
- Material Parameter Wizard

3D-FUNCTIONALITY

- Digitizing with Rapid Area Scan
- Integrated Depth Control
- Extensive Processing Options

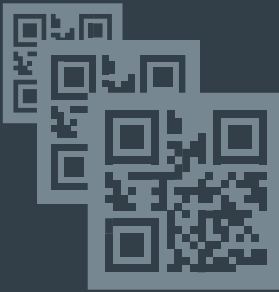
CUSTOMIZATION

- Individual programming
- API integration
- Industry 4.0



Professional tools for marking and engraving

Take control of line spacing, spacing and typeface changes with almost any font




DATA CODE GENERATOR
BATCH PROCESSING




LASER MARKING SOLUTIONS
User-friendly software to assist you in creating laser designs, texts and more.



VECTOR TEXT EDITOR



IMAGE, VECTOR, 3D DATA
IMPORT



INDIVIDUAL FEATURE

INDUSTRIES & MARKETS



Industries and Markets

High precision laser systems for different applications



MINT & PRINT

Solutions for the minting and printing industry



WATCH & JEWELRY

Refinement of luxury goods and accessories



TOOLS & TOOLING

Innovative solutions for durability and precision



MACHINE BUILDING

Integrated solutions and components manufacturing



MOBILITY

Innovative solutions for interior and exterior



MEDICAL

Solutions for highest precisions and sterilization



SECURITY

Novel processes for unique identification



SCIENCE

Innovative solutions for Research and Development

YOUR BENEFITS

Your Benefits **with ACSYS**

First choice for engraving, marking, structuring, welding and cutting with high-precision laser technology

01

Experience

More than 20 years of experience in high-end laser processing

02

Co-Operation

Driving mutual success through active customer focus and long-term partnerships

03

Customization

Turning customer requirements into individual turnkey laser solutions
"Made in Germany"

04

Innovation

Stretching the limits of what is possible for the benefit of our customers with our pioneering spirit and our thirst for knowledge

05

Excellence

First-in-class hardware, software and process know-how combined with our commitment to delivering unparalleled solutions

Let's embark on a
journey towards
new possibilities
in laser machining.

Ready to make waves in Laser Processing?

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