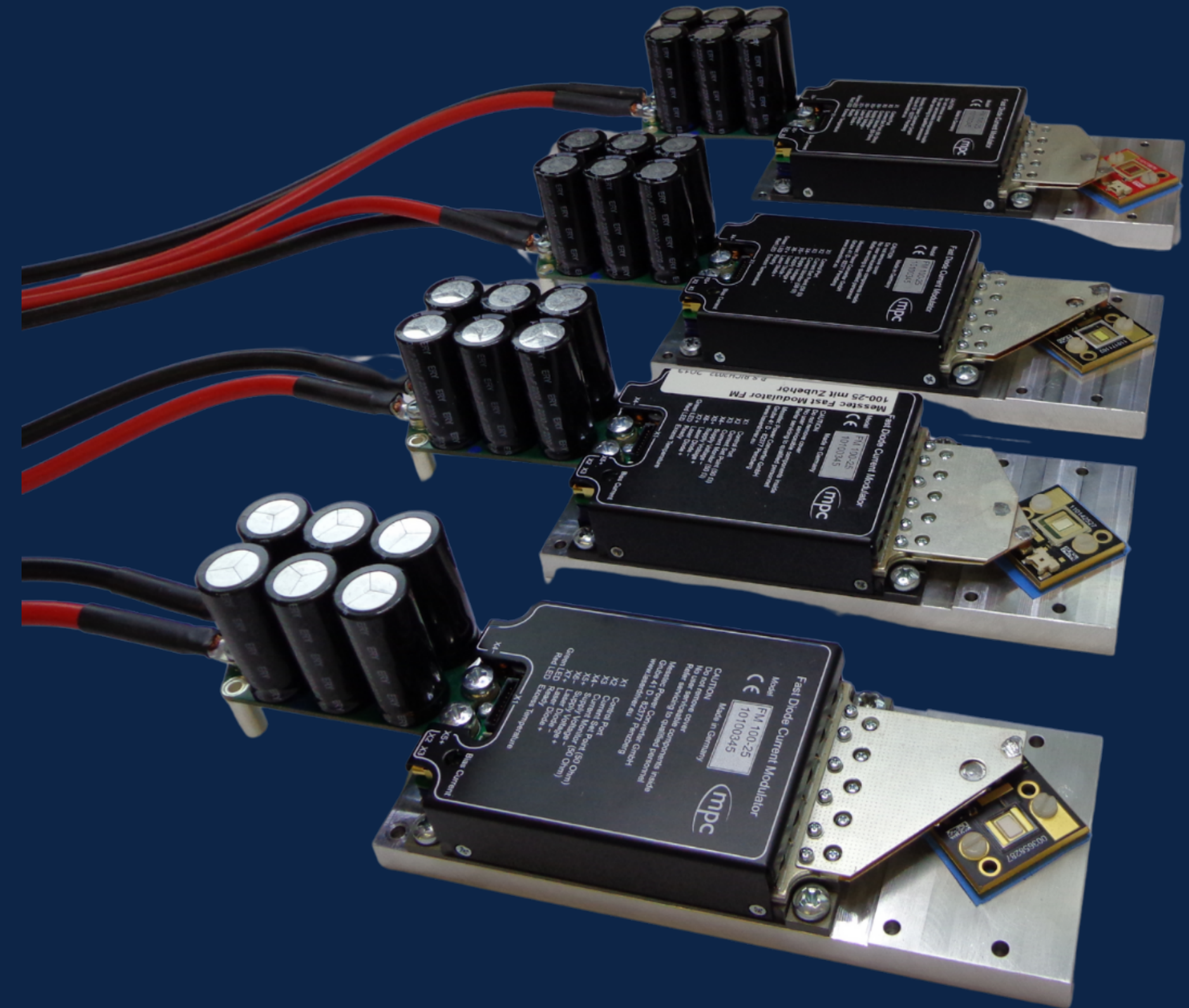




a part of: **sym:**
beyond economy



We bring
power
to your project!



mpc products
demonstrate special strengths
in applications that
simultaneously require
high electrical accuracy ($\Delta I \leq 0,01\%$)
and
high thermal accuracy ($\Delta T \leq 0.01K$)

Tradition & Innovation since 1976 in laser technology, power supplies and temperature management.

Specialist with the highest level of vertical integration:

- In-house research and development department for customized solutions
- In-house electronics and mechanical manufacturing
- Complete system integration and quality assurance

Technology leadership: Pioneer in laser drivers and TEC controllers since 1986

Internationally networked medium-sized company: Global presence with partners in Europe, Asia, and America

Industry expertise: Specialized solutions for various high-tech sectors (Railway technology, aviation, printing industry, laser industry, Industry 4.0, medical technology, 3D printing, material processing, research, recycling)

Agile production: Flexibility from prototypes to series with short time-to-market cycles

Highest quality standards: Reliable premium products with uncompromising precision

Customer-oriented service: Personal advice, rapid technical support, and customized solutions

Our core competencies

We strive
for
ISO 9001
&
ISO 14001!

1

Manufacturing and development
of powerful and precise
laser drivers,
OEM modules,
TEC controllers and
cooling systems

2

**Electronics and mechanical
manufacturing**

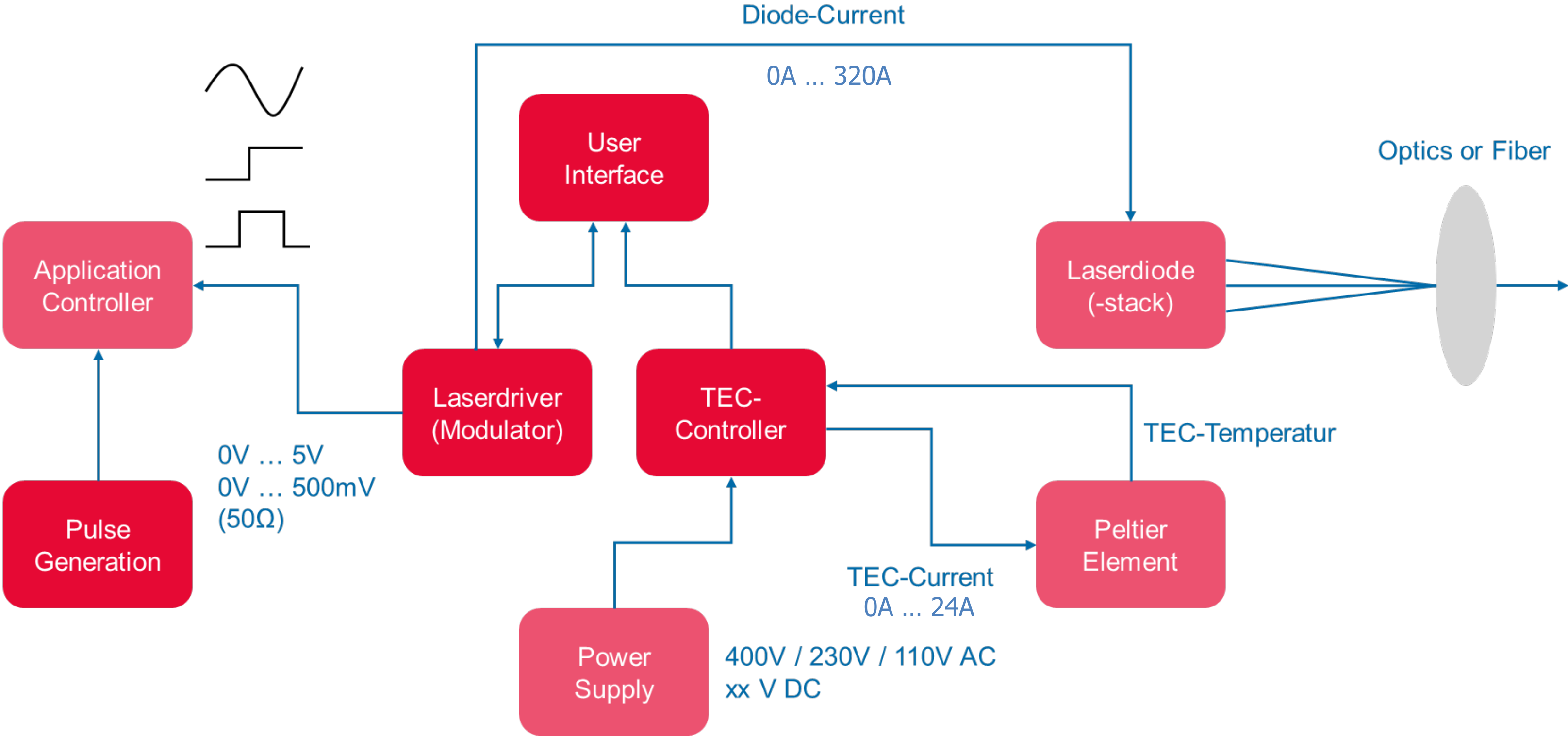
From individual components to
complete assemblies

3

**Customer-specific
solutions**

Manufacturing-oriented
development

Laser Diode System



D-Serie

CW Drivers, pulsed and
modulable Drivers



DT-Serie

CW Drivers, pulsed and modulable
Drivers with TEC Controller



LPD, FM, VFM, MSM, MCM-Series

Fast pulsed and
fast modulable Drivers



DPD-Serie

CW and pulsed
High Power Drivers



Compact Laser Systems



TEC Controllers
and Cooling Systems



VFS

A very fast driver for pulses
and arbitrary waveforms



Modular Diode Driver

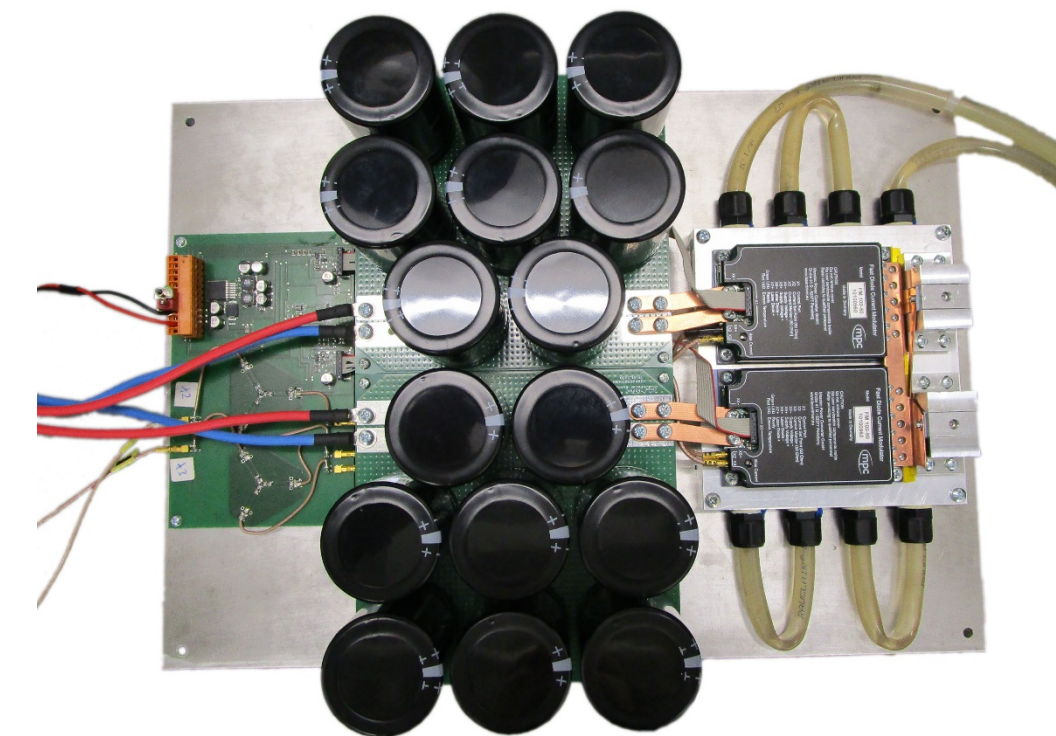
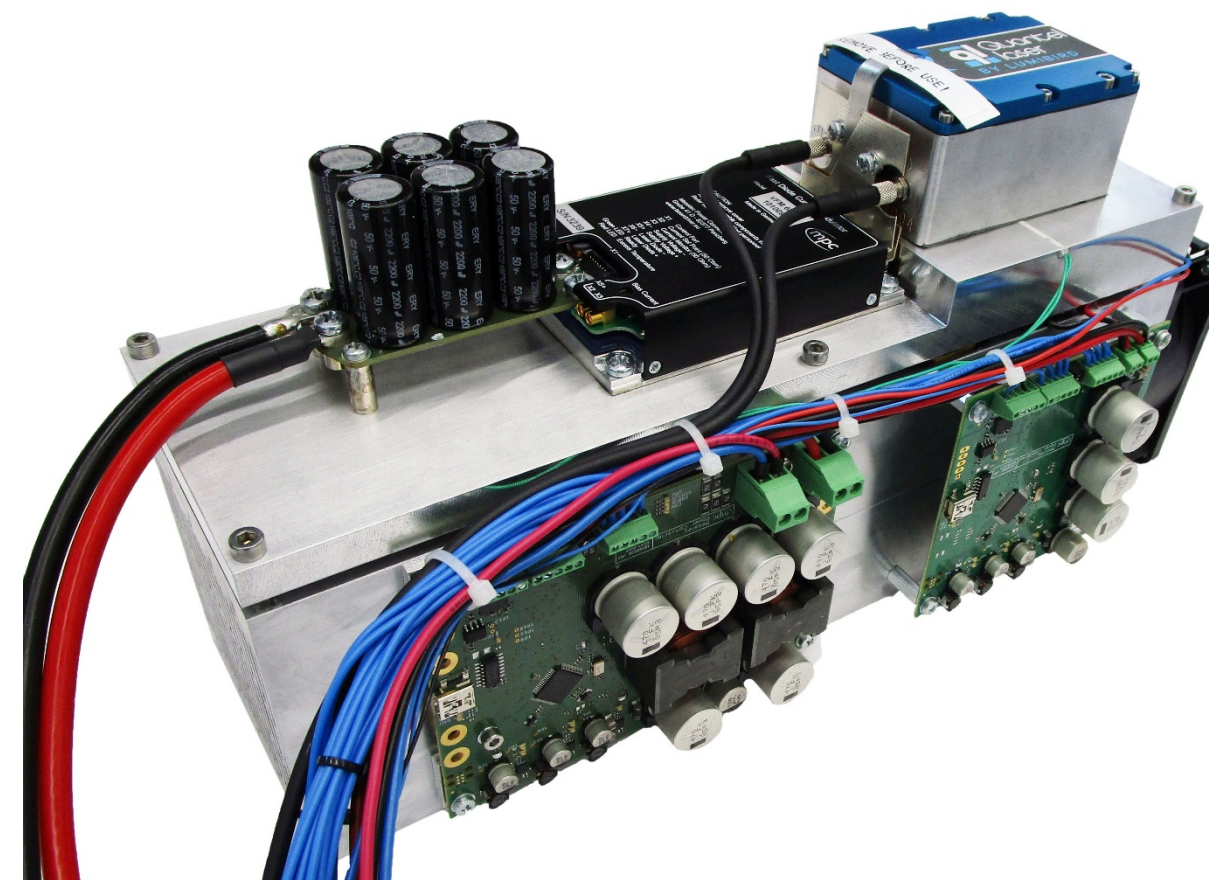
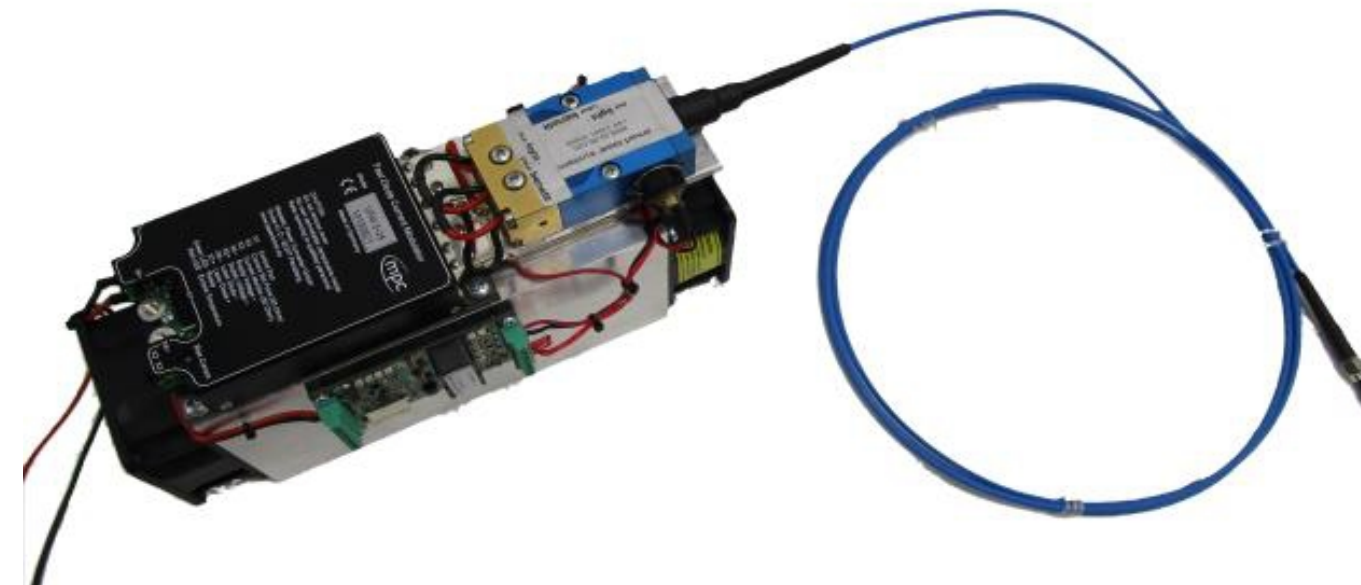


We develop, manufacture, assemble, and test complete OEM laser modules consisting of:

- Laser diode
- Laser driver
- Driver for pilot Laser
- Peltierelement
- Base plate
- TEC Controller
- Cooling systems (Heat Pipe, air-cooled, water-cooled)
- Fan Control

for:

- Standard TO LDs with copper holder
- Free-beam Laser diodes
- Fiber-coupled Laser diodes



Vertical Integration



Electronic Manufacturing

- SMD and THT Assembly
- Custom-Made Products
- Electromechanical Assembly
- Component and System Testing

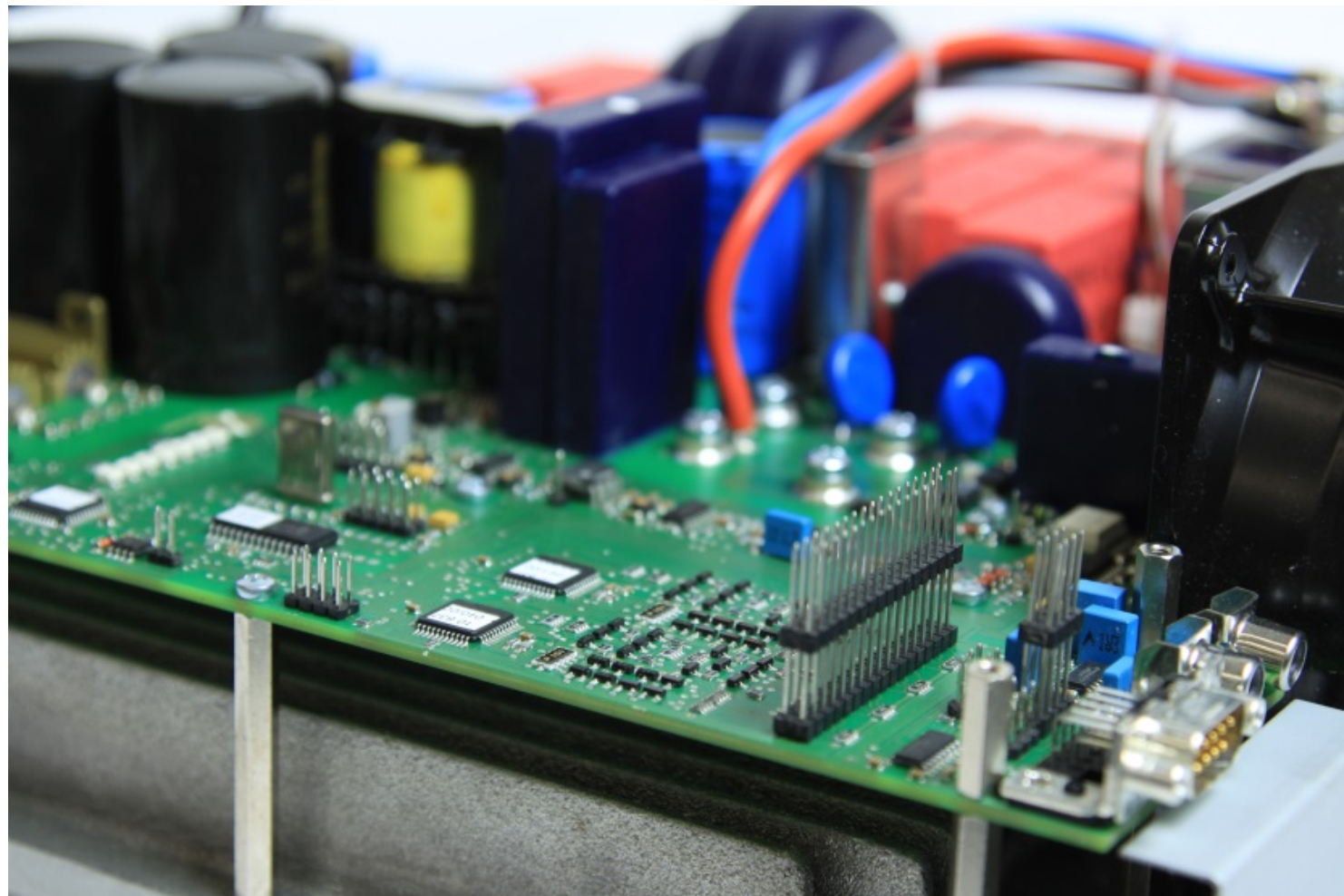


Mechanical Manufacturing

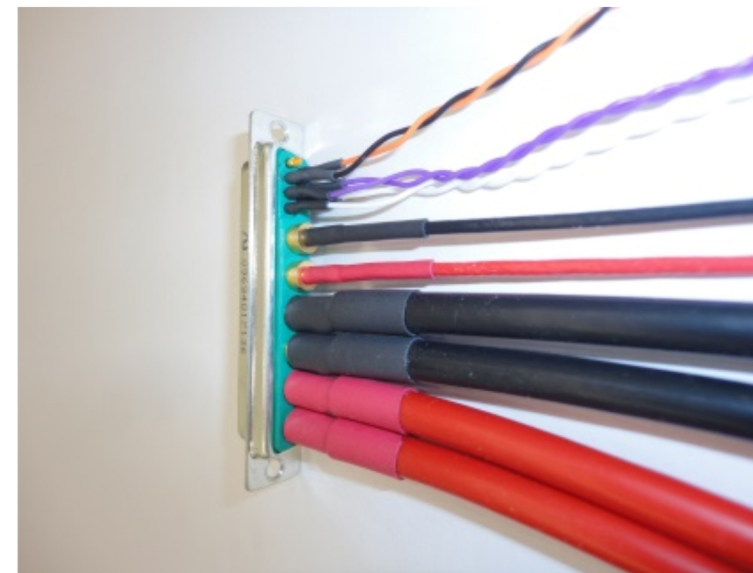
- Turning
- Milling
- Punching, nibbling, bending
- Surface finishing

Electronic Manufacturing

- SMD and THT Assembly



Cables and Plugs



Chokes and Transformers



Potting of Components



Vertical Integration

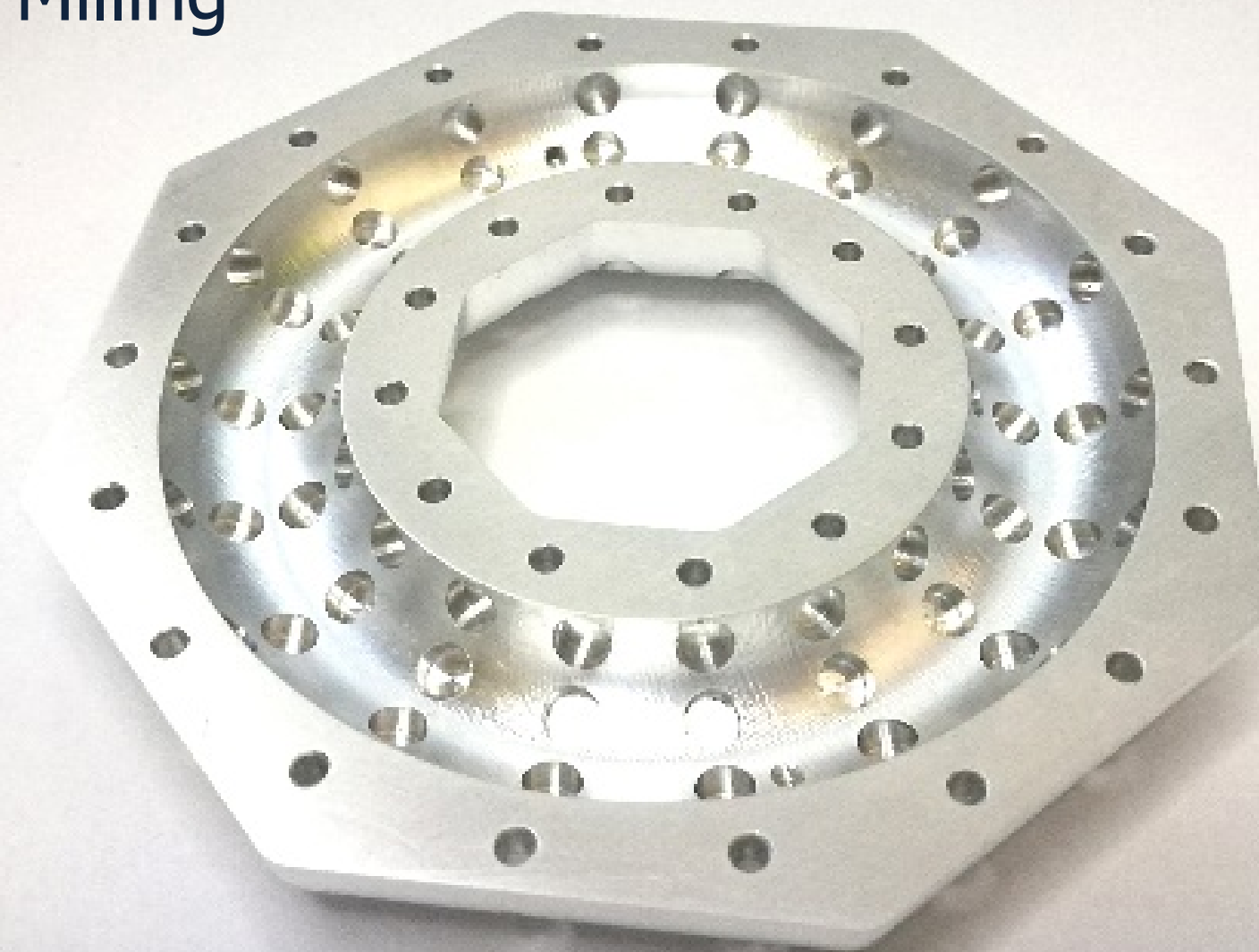
Mechanical Manufacturing

Processing of many materials, such as aluminum, steel, stainless steel, titanium, copper, brass, plastic, etc.

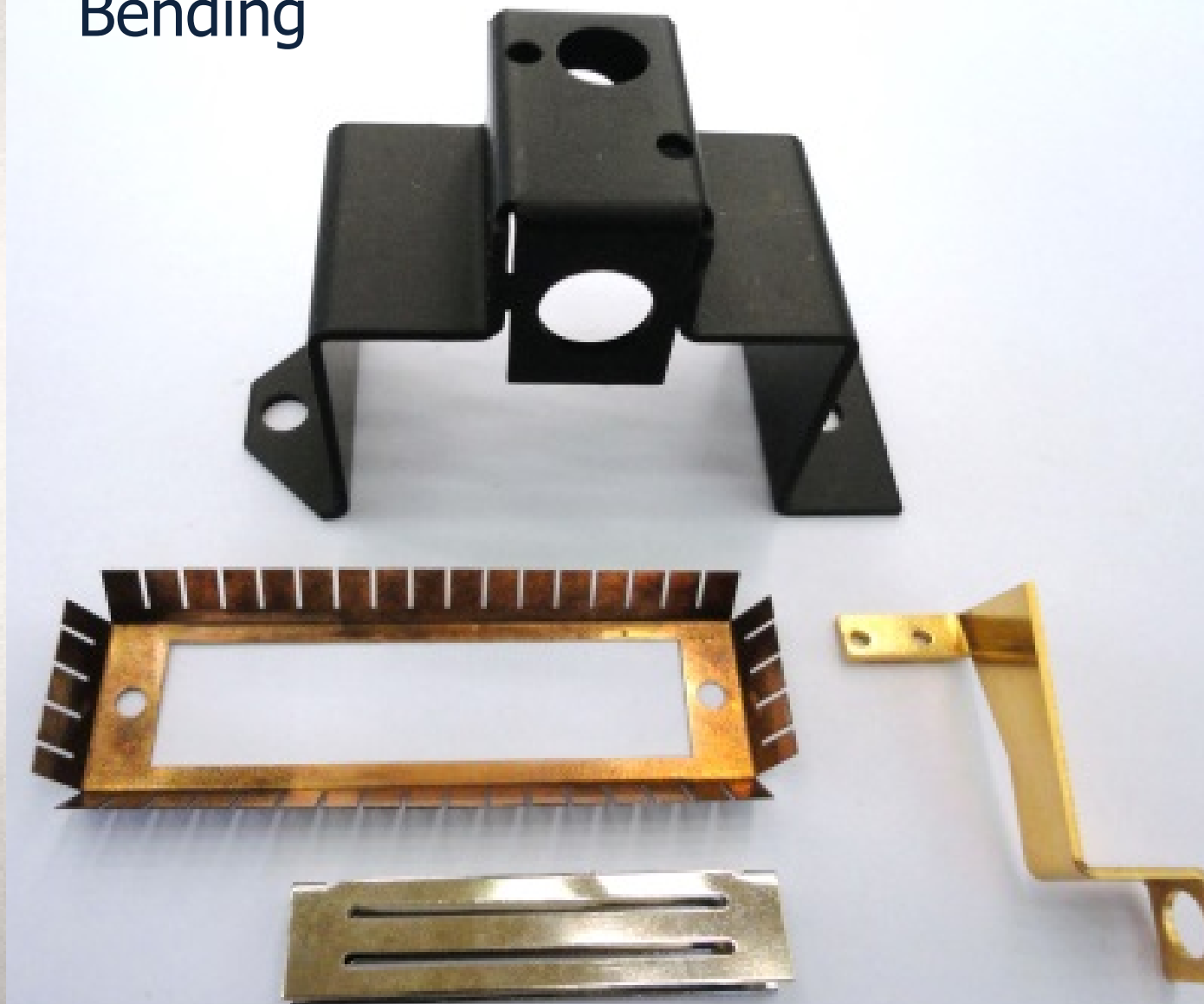
Turning



Milling



Bending

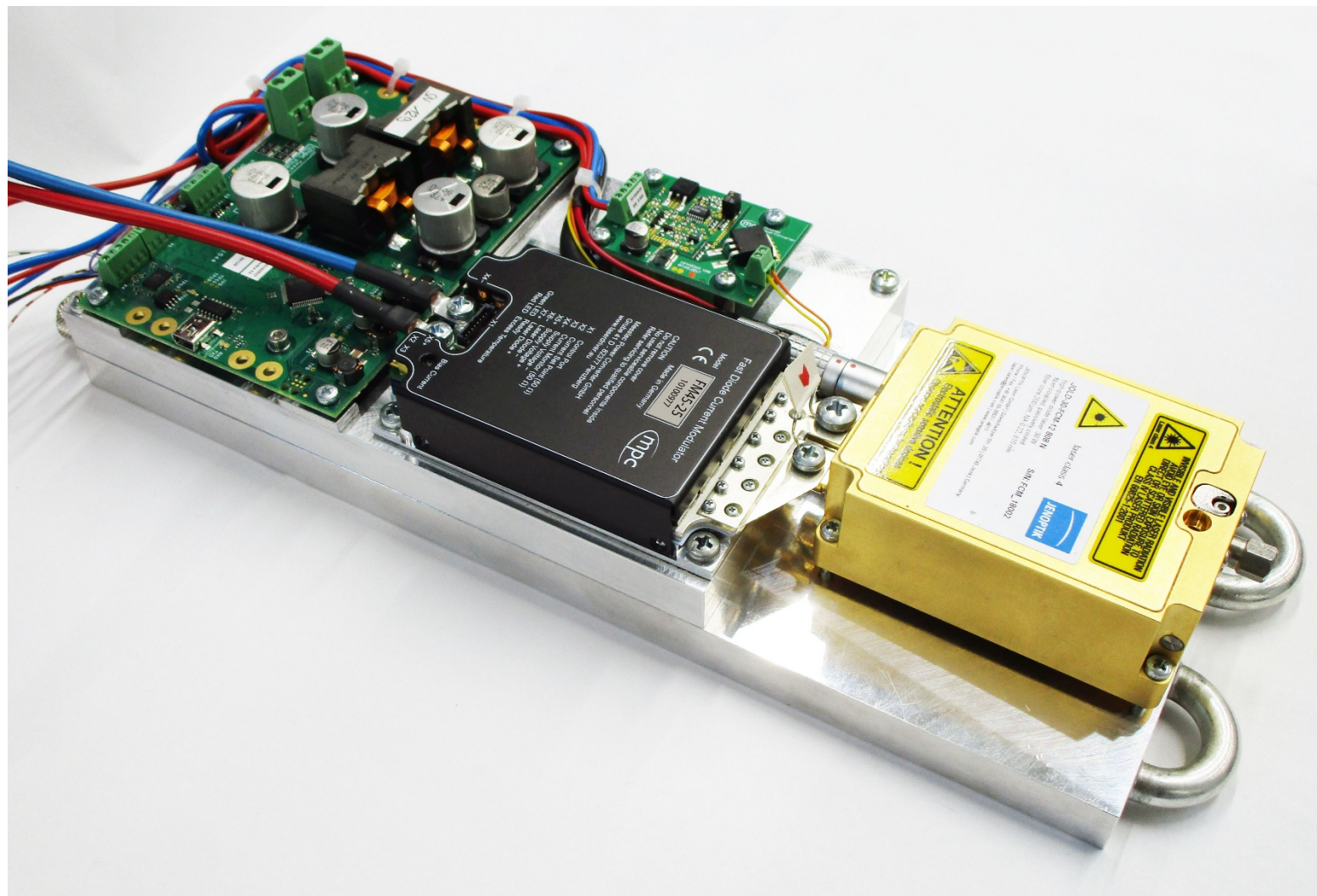


Electro-mechanical manufacturing

Manufacture of components and complete assemblies

Prefabrication of accessories such as connectors, cables, etc.

Wiring, assembly, testing

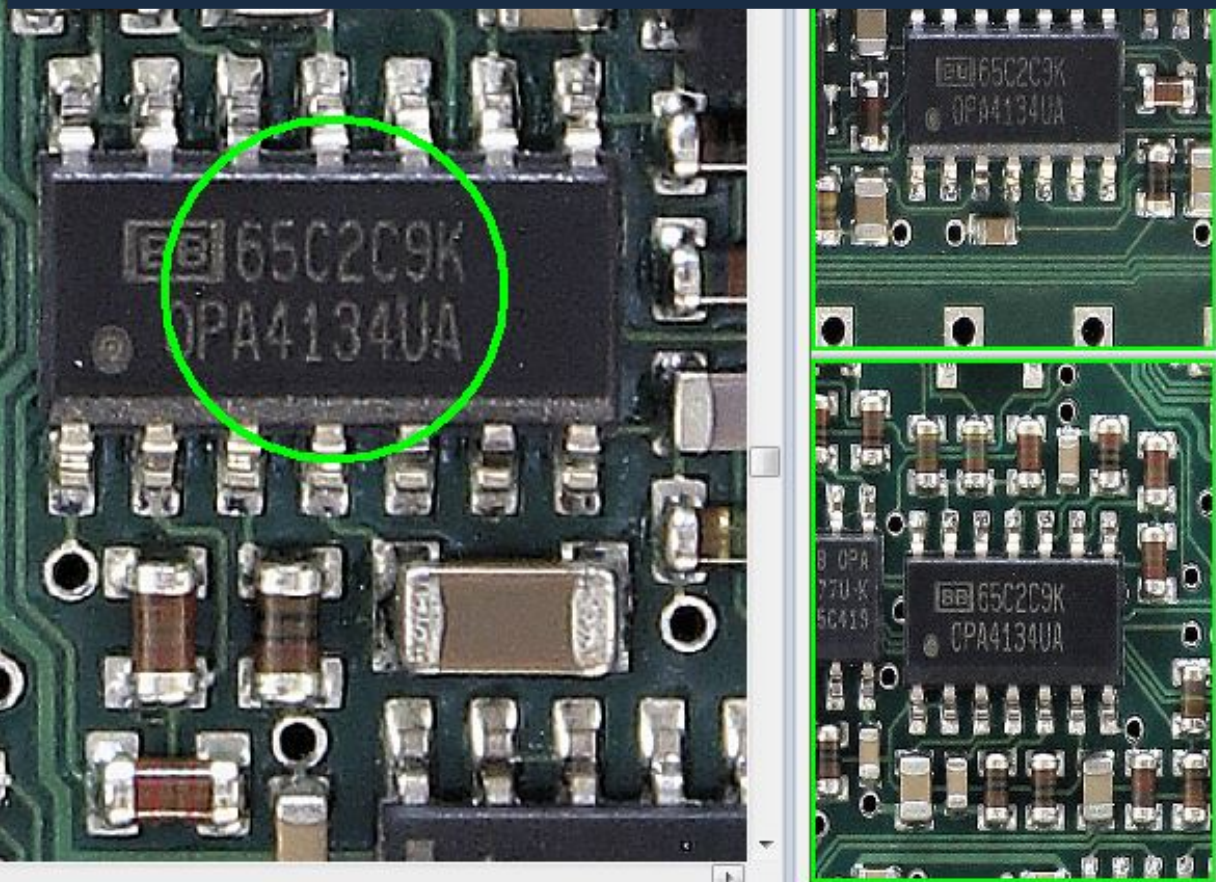


Testing

- Electronic and mechanical part and component testing
- System and functional testing

Electronic

Computer-assisted visual and soldering inspection



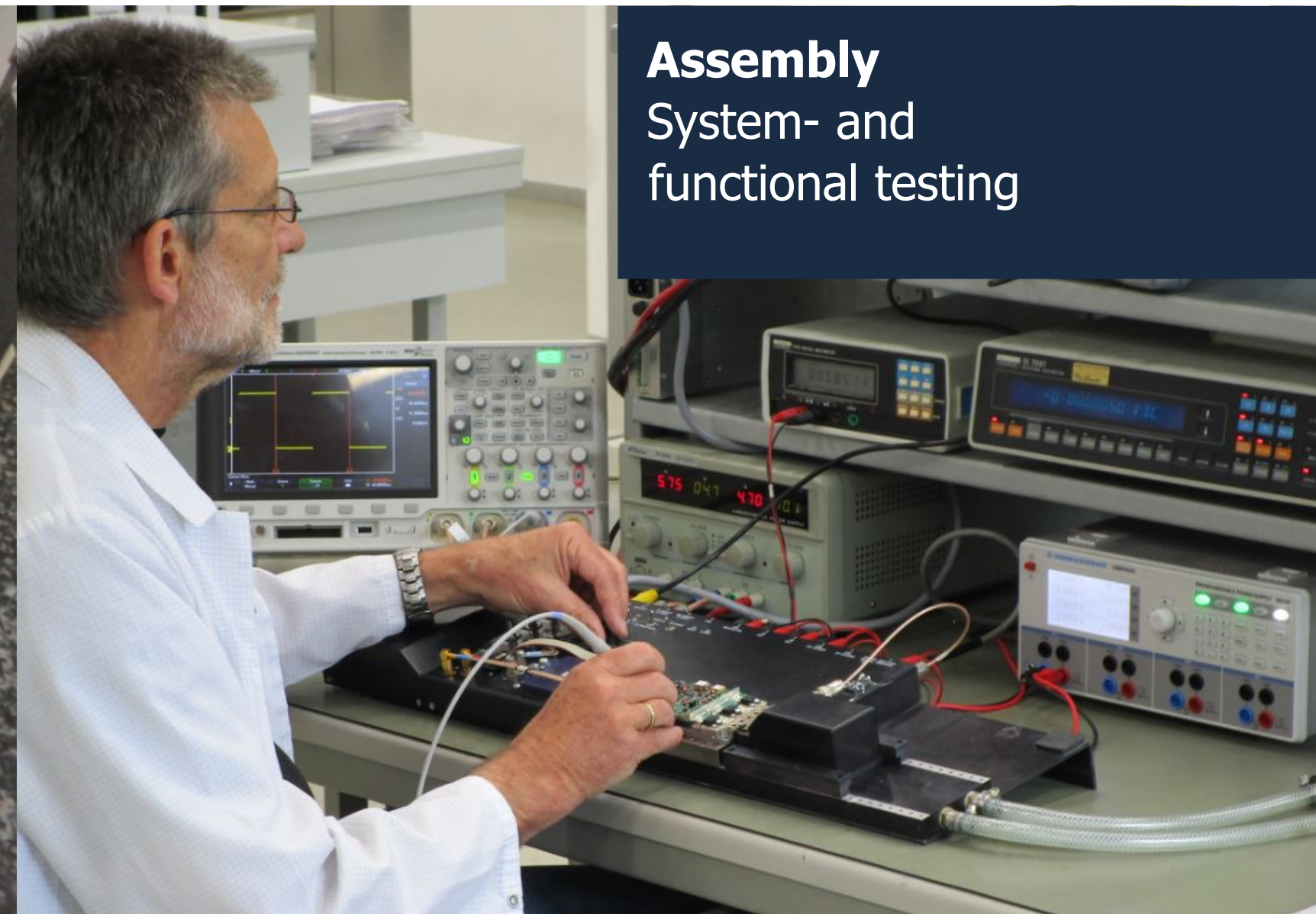
Mechanic

Dimensional control



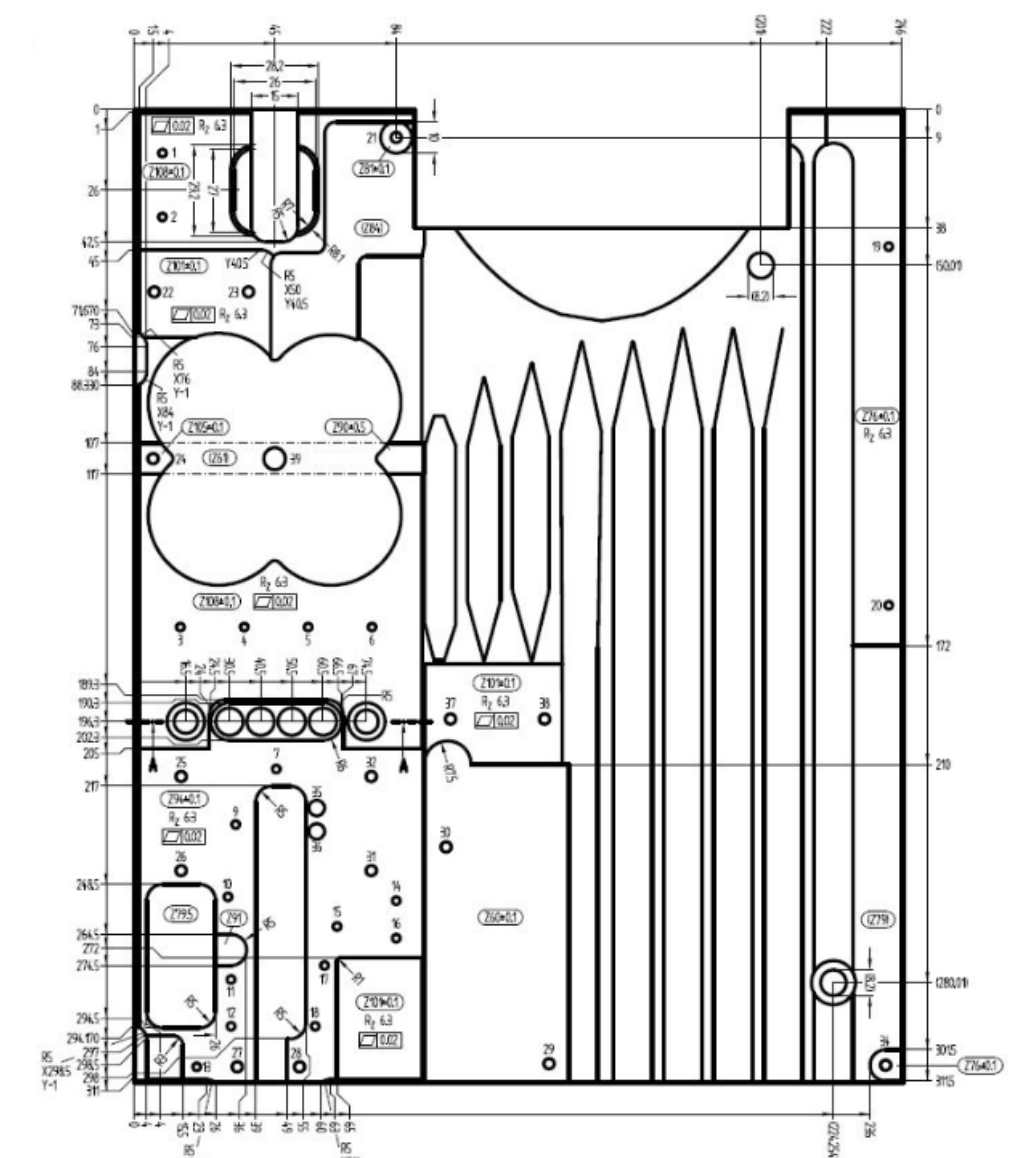
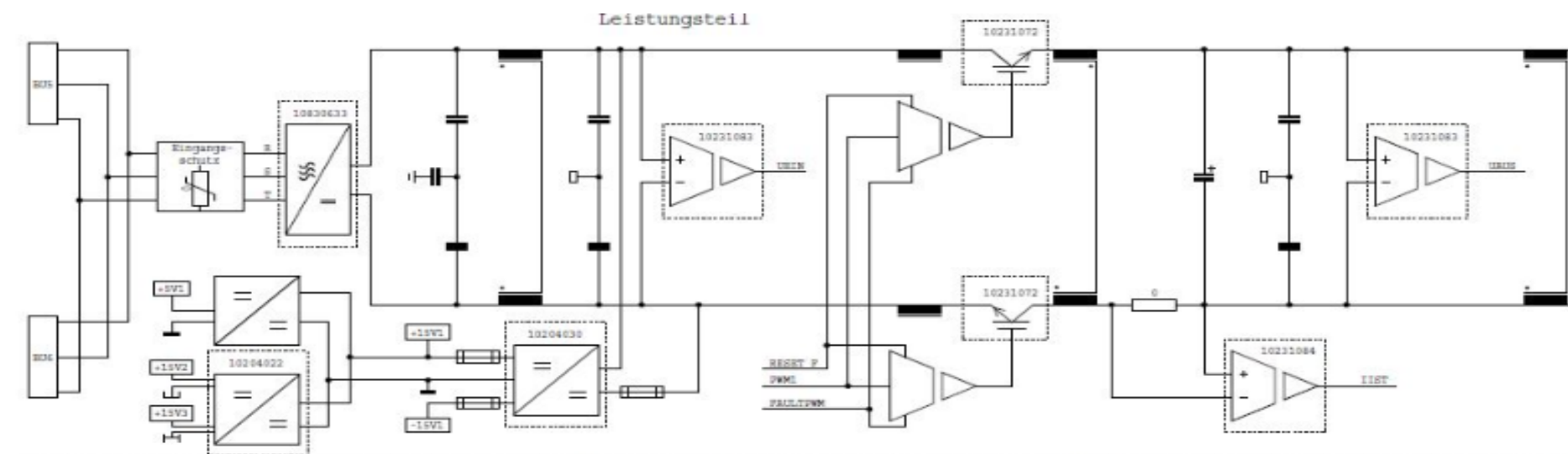
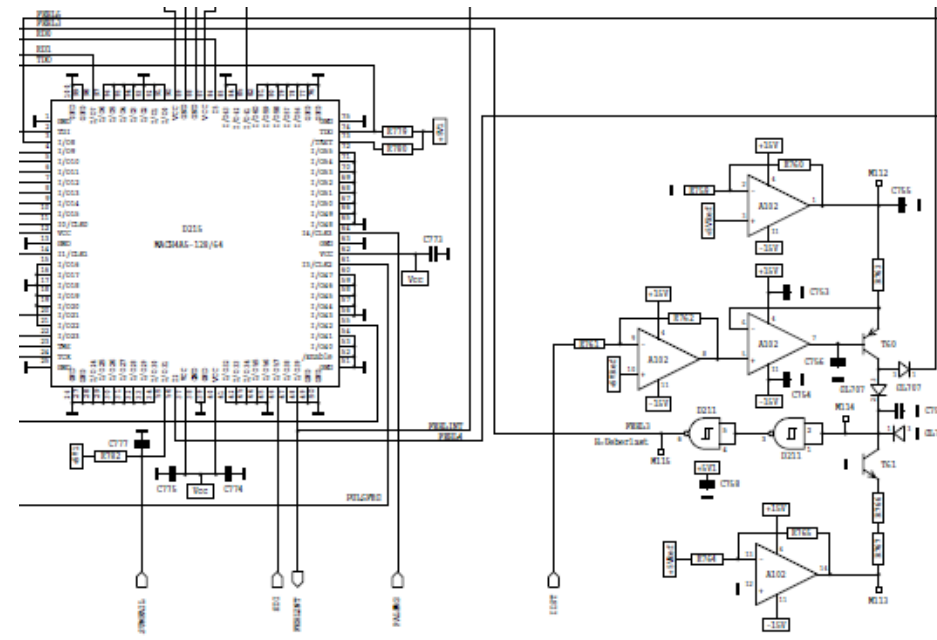
Assembly

System- and functional testing



R&D: Upon customer request

- Project-specific developments
- Electrical engineering
- Circuit design
- Printed Circuit Board design
- Mechanical constructions



Sales Agents

Canada

USA

France

Italy

Finland

Türkiye

Israel

South-Korea

India

Singapur

Japan

Taiwan

Hongkong

Australia

Referenzen



- 1976** Founding of the **Peter Moosbauer** Engineering Office
- 1982** Electronic and mechanical manufacturing begins
- 1985** Move to the new company building
- 1986** Development of the first products for laser technologies
- 2000** Registration of the first patent
- 2006** Reconstruction and expansion of electronics manufacturing
- 2007** Registration of further patents in Germany
- 2008** Registration of further patents in USA
- 2012** Acquisition of MESSTEC Power Converter GmbH by **Kersten Stöbe**
- 2017** Acquisition and integration of Ernst Rieger Apparatebau GmbH
- 2019** Development of the new TEC Controller product family
- 2024** Acquisition of MESSTEC Power Converter GmbH by the **Schwienbacher Group** and **Merlin Reingruber**
- 2026** **50th anniversary** of the founding of Peter Moosbauer

Contact

MESSTEC Power Converter GmbH

Grube 41

82377 Penzberg

Germany

+49 (0) 8856 803060

info@powerconverter.com

www.powerconverter.com



Merlin

Reingruber

Managing Director