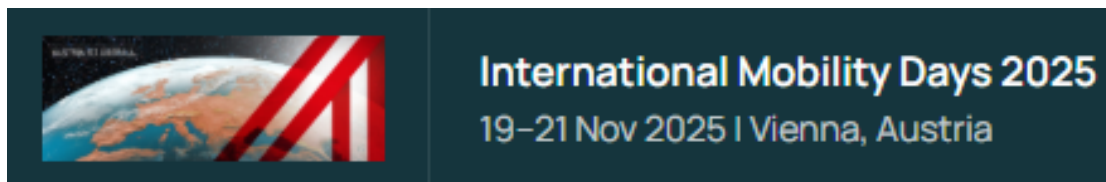




Company Presentation

for



Vienna, 20 Nov 2025

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Locations & Contacts



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• • • Austria

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www.precision-engineering.cz

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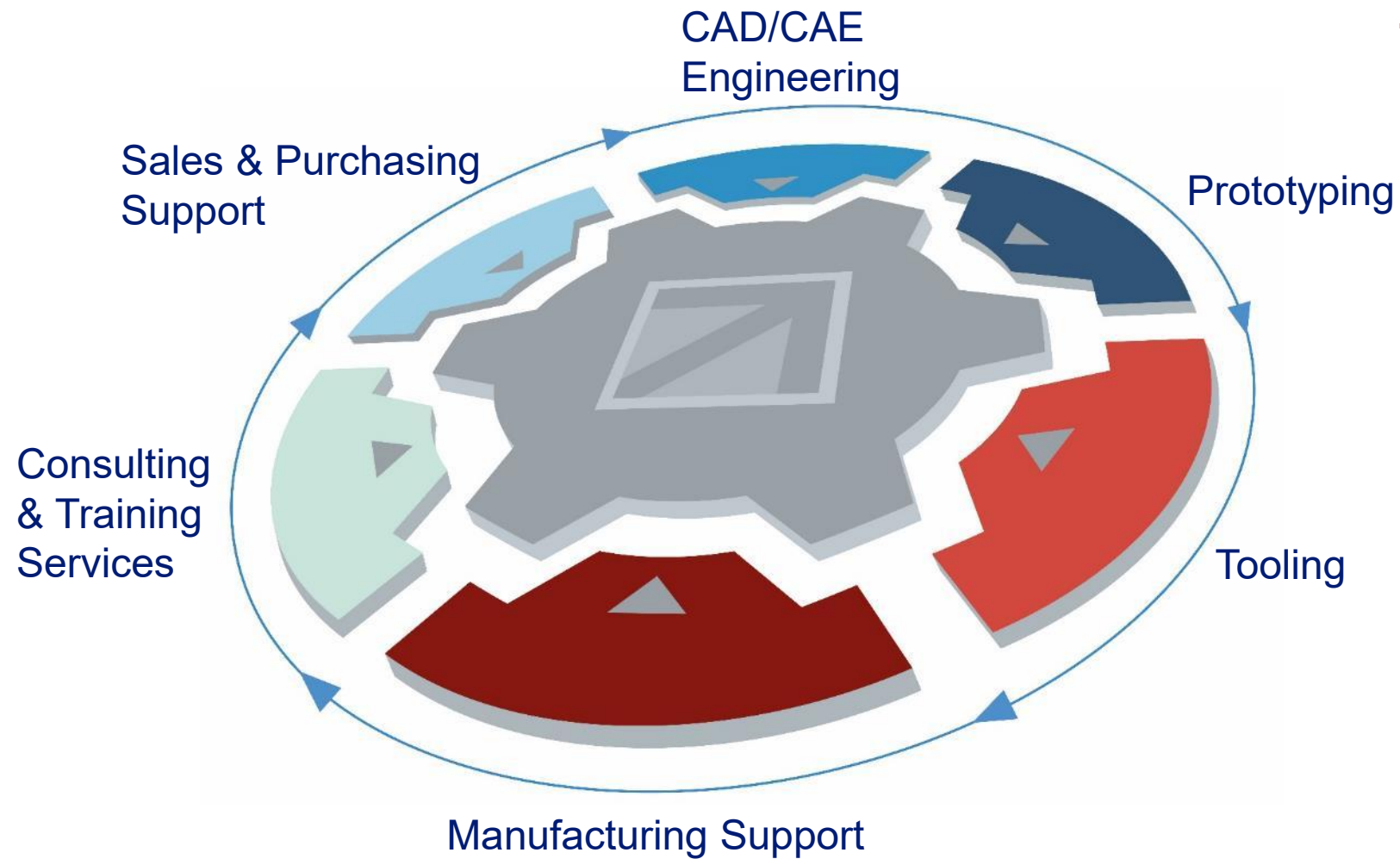
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Service Modules



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Solutions for e-mobility

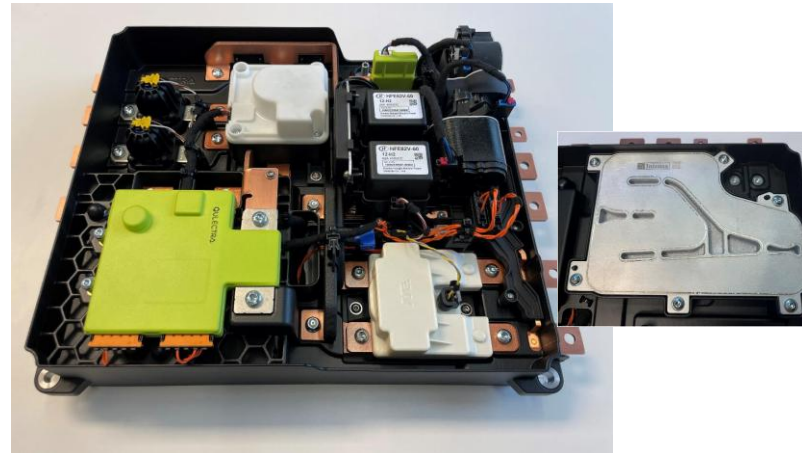


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• Solutions for e-mobility

- Inverter
- electric motor
- battery switch box
- cell contact unit
- charging path
- contact protection
- charging sock
- ...



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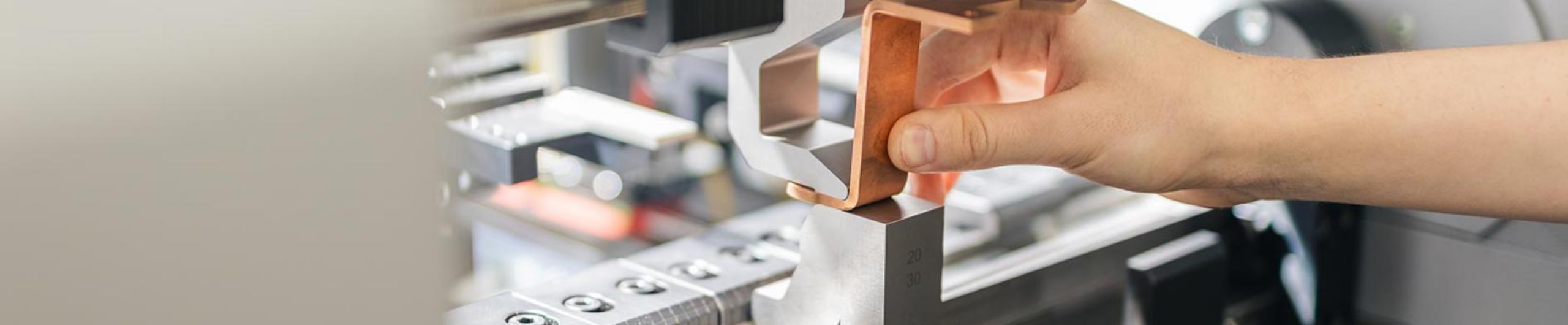
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Sheet metal processing



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● **Prototype production processes**

- Sheet metal parts made of steel, brass, bronze and copper
- Laser and wire cutting
- NC bending machines, hydraulic and mechanical presses
- Stamping and bending technology



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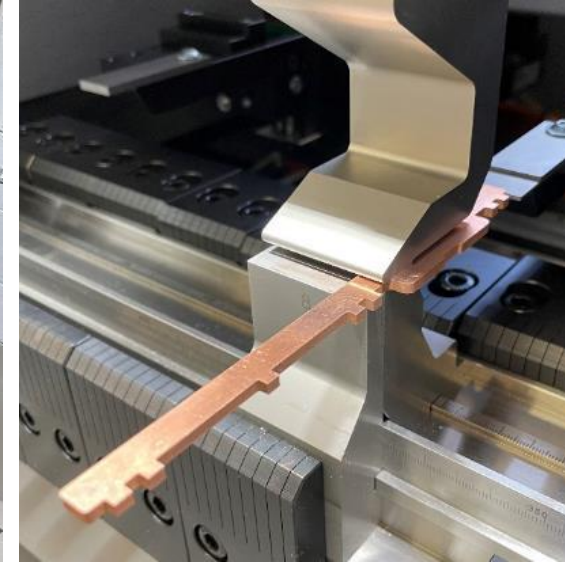
Prototyping Technologies



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Common alloy grades and gauges on stock for quick-turnaround prototyping



Copper Busbars up to 5mm thickness

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Plastic injection molding



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● Plastic injection molding

- Plastic parts
- Insert moulding
- Outsert moulding
- ENGEL vertical turntable machines
 - From 40t to 300t



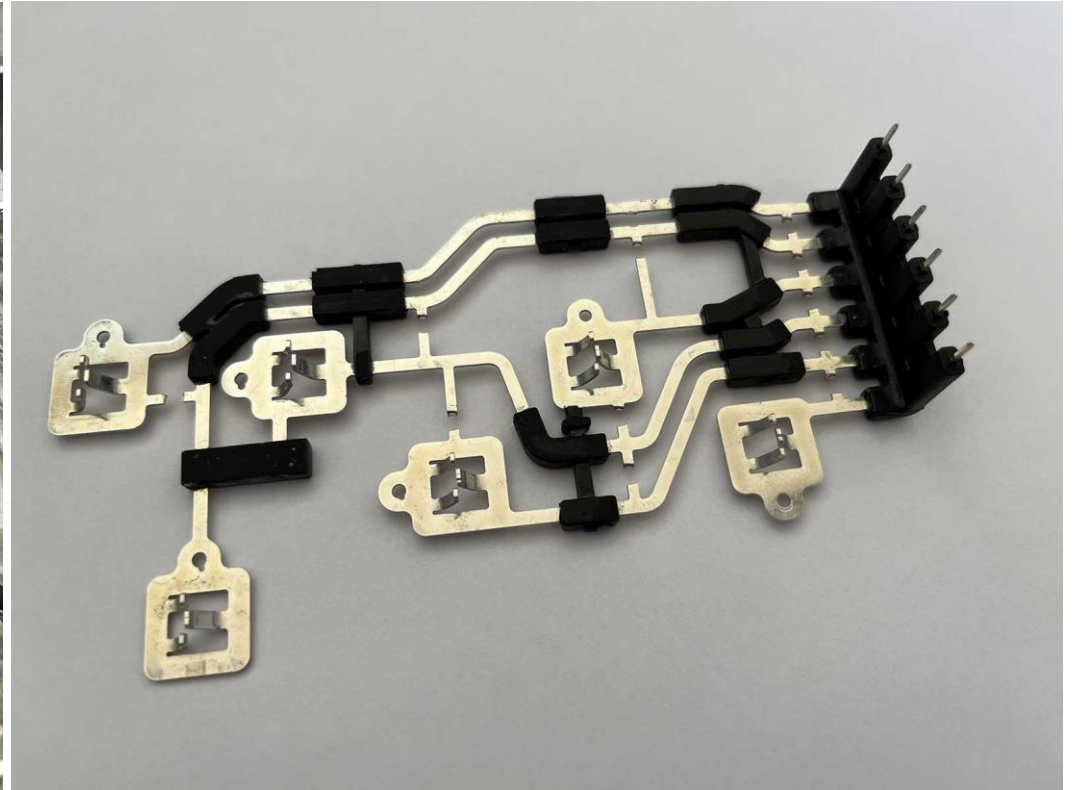
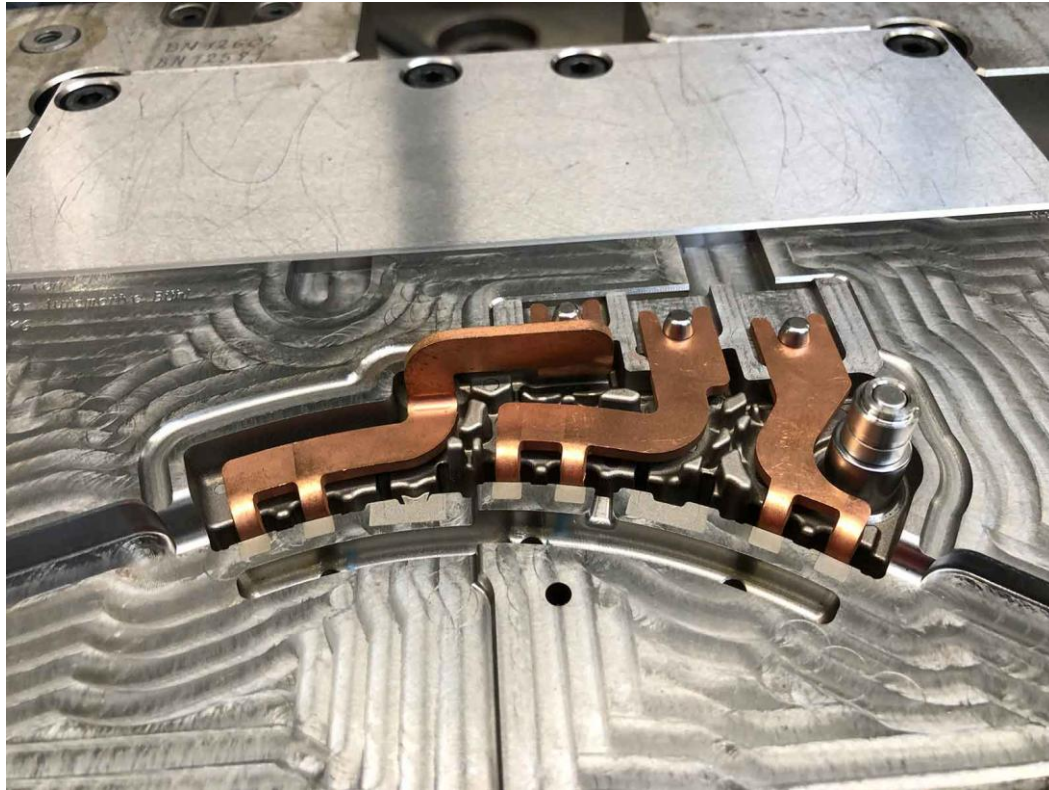
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Prototyping Technologies

Overmolded HV terminal and contact grid



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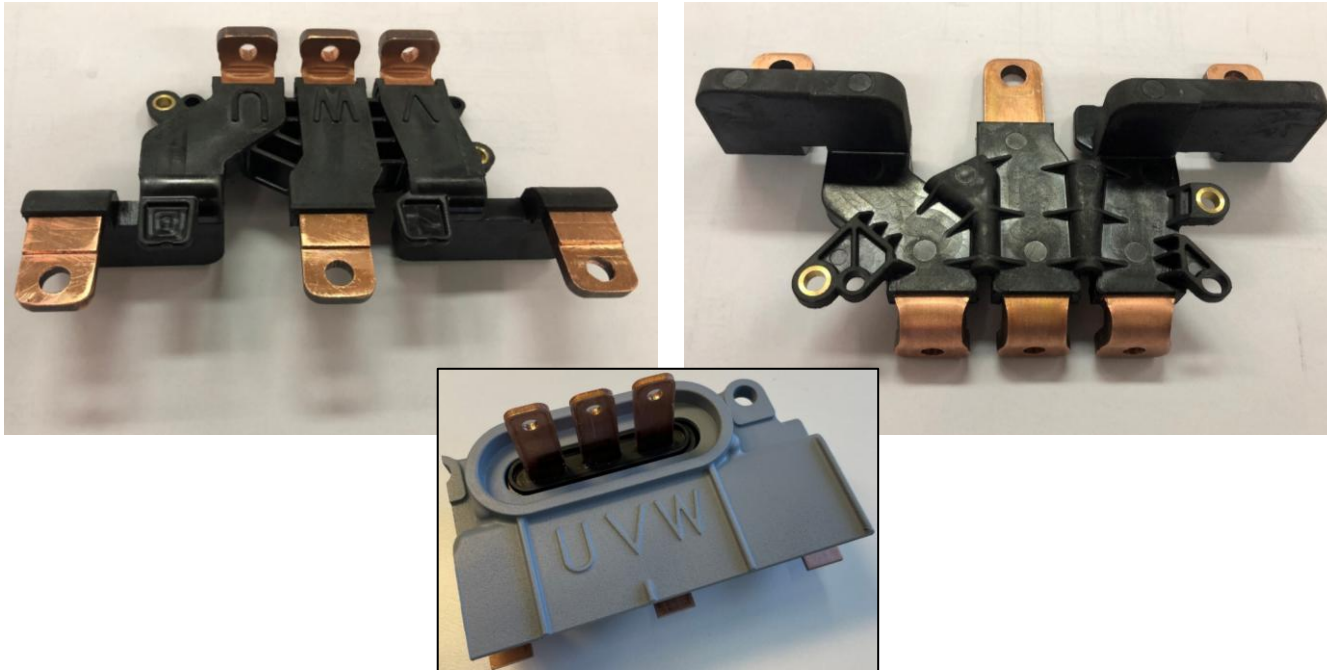
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Prototyping Technologies



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Busbars



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Die-cast parts

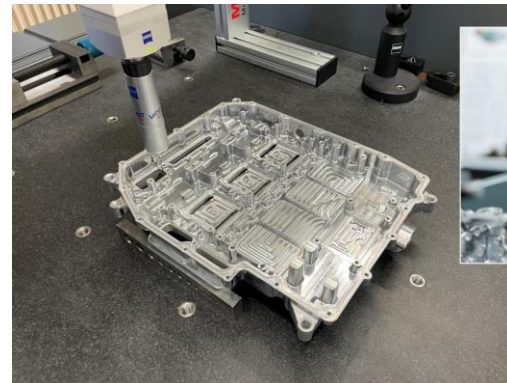


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- **Die-cast parts**

- 3D-printed
- Solid milled part
- Off-tool prototypes



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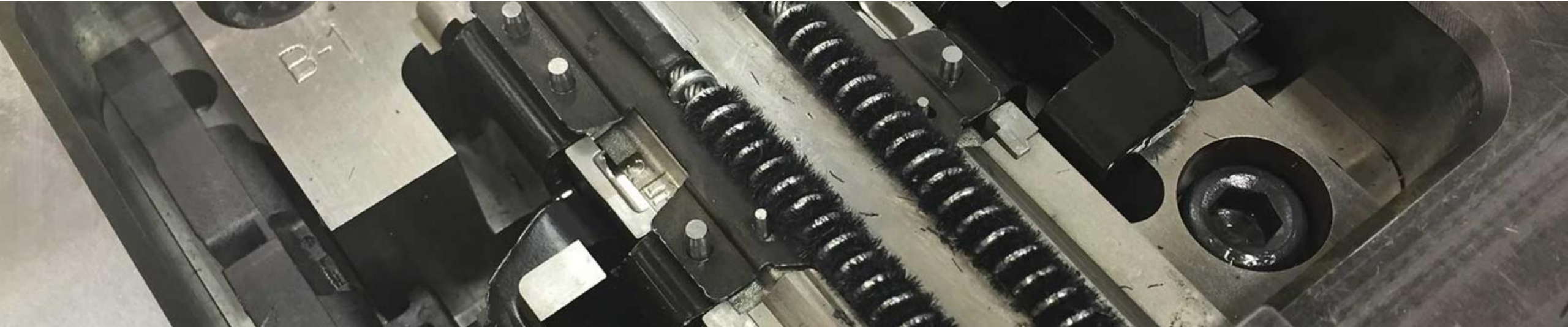
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Helix cables / flex shafts

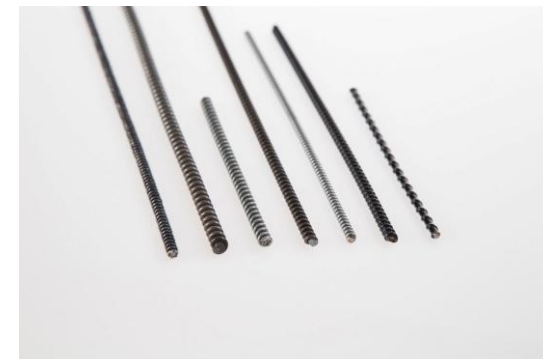


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- **Helix cables / flex shafts**

- Sunroof and folding top applications
- window lifting and seat adjustment systems
- actuation of charging socket and charging recess cover



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Laser technology

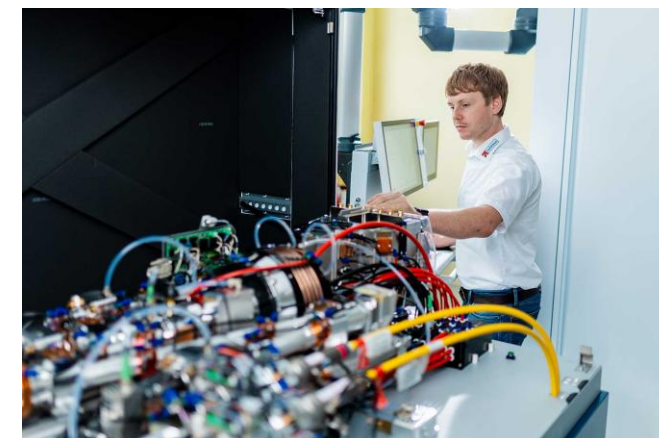


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● Assemblies / Small Series

- Part marking
- Decoating
- Preparation and cleaning
- Laser welding of sheet metal part
- Media-tight laser welding of aluminum heat sinks



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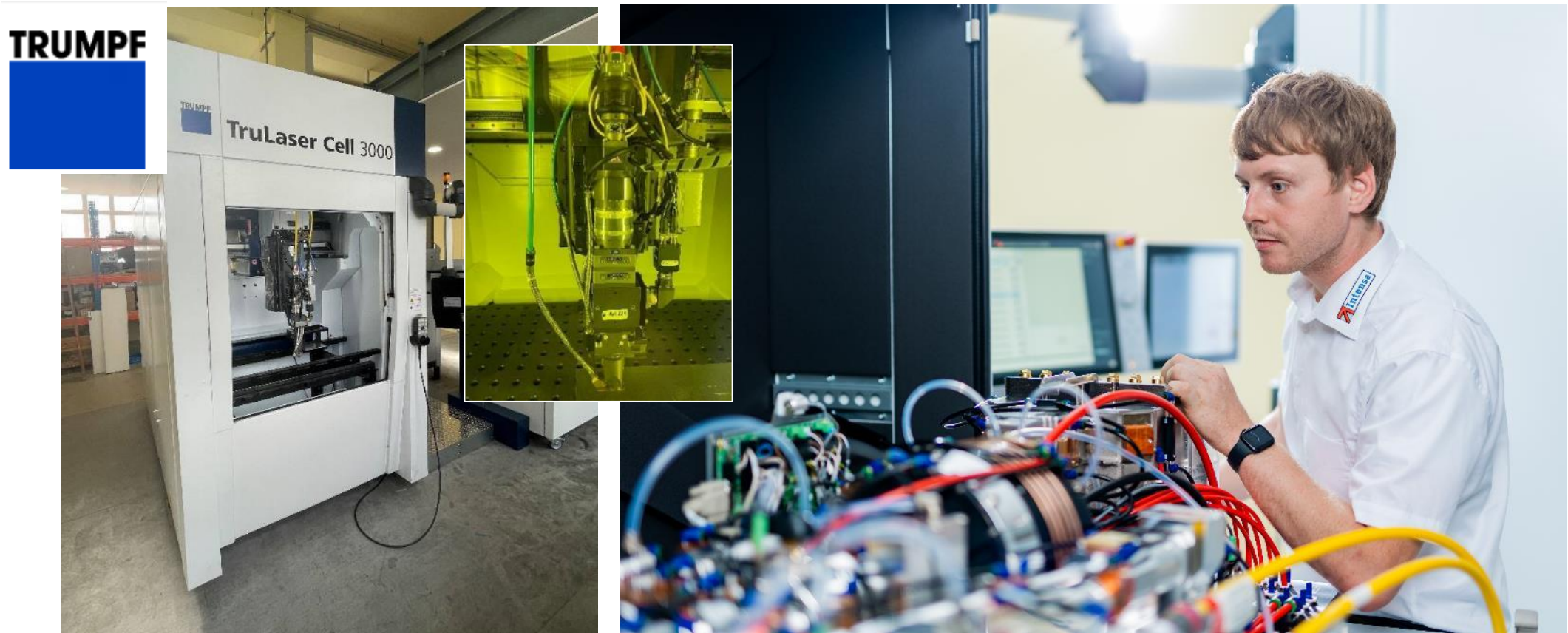
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Prototyping Technologies



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- **Laser Welding Machine** TruCell 3000 with 8kW power
Optics for Cu-/Al-Busbars and Al-Housings



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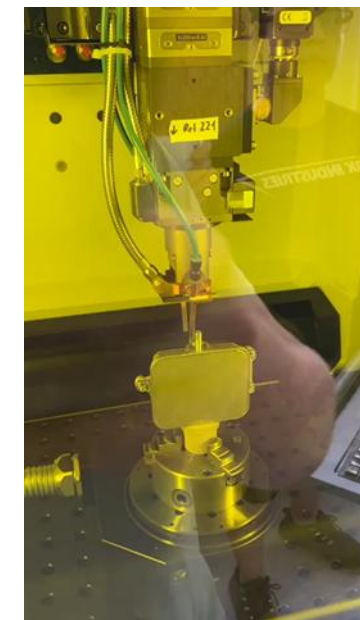
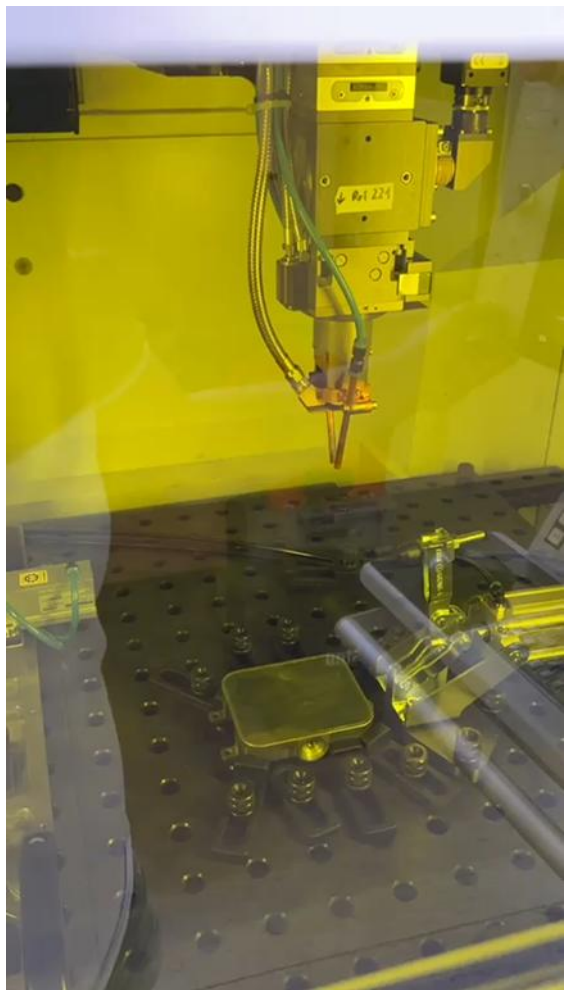
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Trial housing die-cast part with stamped cooling lid



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Micrograph Probe Preparation (in-house Lab)

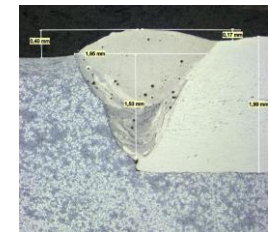


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Micrograph cuts: sawing, grinding, polishing and etching



Microscope measurement of weld seam depth, width and characteristics



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Laser Welding Leakage Testing



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**Leakage Test w/ air and/or
underwater bubble test**

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Assemblies



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● Assemblies / Small Series

- Moulded- and over moulded parts
- ESD-protected assembly area
- Generic and customer-specific assembly stations
- Laser welding for contacting / leak-tight cooler welding
- Ultrasonic and laser welding of thermoplastic housings
- Electrical test station
- EOL end-of-line tests



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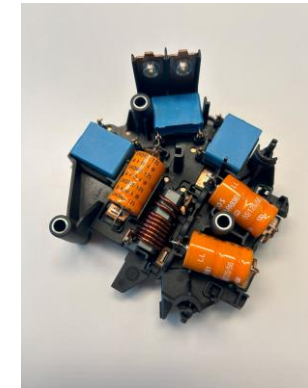
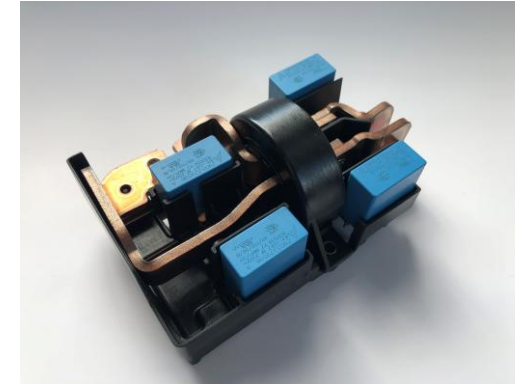
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WiresDC-Filter Assy. / EMC carrier plate



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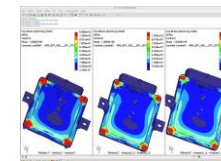
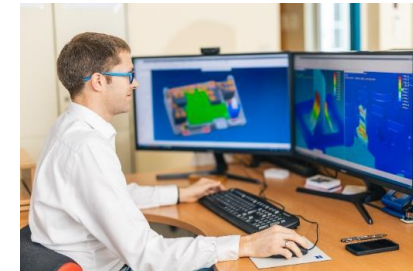


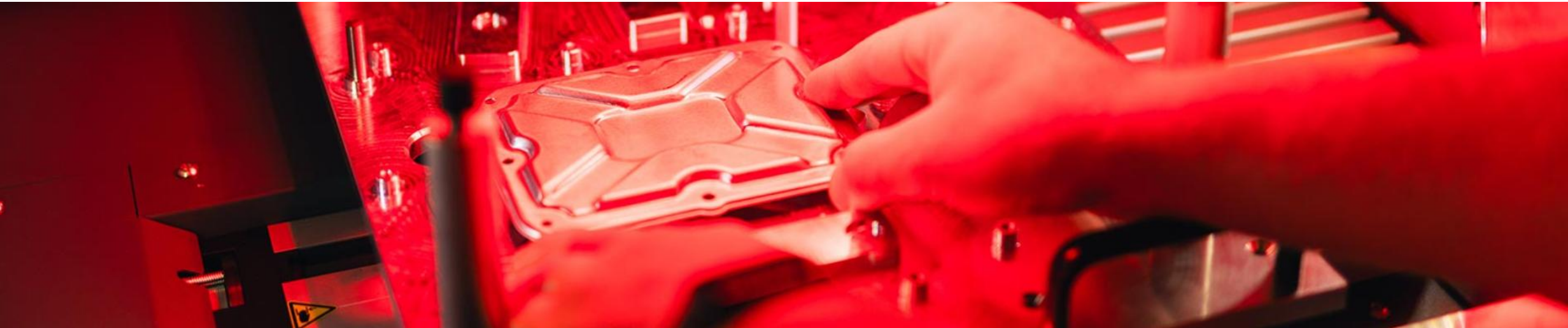
● CAD/CAE Systems

- PTC Pro/Engineer Wildfire/Creo 10 CAD/CAM Workstations
- Dassault Systems Catia V5 R32 CAD Workstations

● Simulation

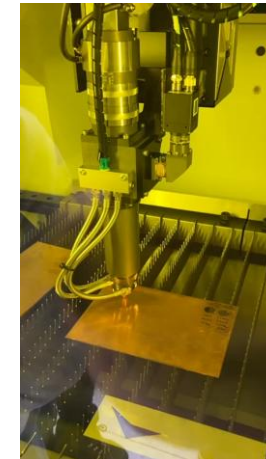
- Thermal and Mechanical simulation (Mechanica/Creo Adv. Simulate)
- PTC Creo™ creepage and clearance analysis
- Moldex3D (moulding simulation)





● Prototype production processes

- Manufacture of Busbars & Leadframes with laser and wire-cutting
- Bending/Coining with NC-Bending Machine and hydraulic presses
- Insertion of threaded bushings and bolts
- Thermoplastic Overmoulds in standard mould frames for short leadtime
- HV-Check up to 3,85 VDC w/ generic E-Test Cell and specific adapters
- Resistance, Friction Stir and **Laser Welding**



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Measurement technology

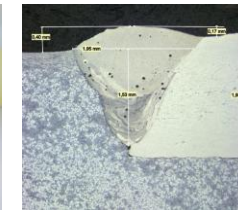


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• Measurement Systems

- 3D coordinate measuring machine
- Optical measuring microscope
- Leak test device
- HV testing
- Micrograph Probe Preparation



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Consulting and training

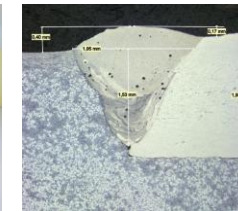


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• Consulting and training

- Specialist lectures and presentations
- Sales and marketing consulting
- Purchasing and procurement marketing
- Supplier development programs
- Supplier market analyses
- Location and partner selection
- Manufacturing technology consulting



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Please contact us today with your inquiry:

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