



# Company Presentation

for



**International Mobility Days 2025**  
19–21 Nov 2025 | Vienna, Austria

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**Vienna, 20 Nov 2025**

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# Locations & Contacts



## • • • Austria

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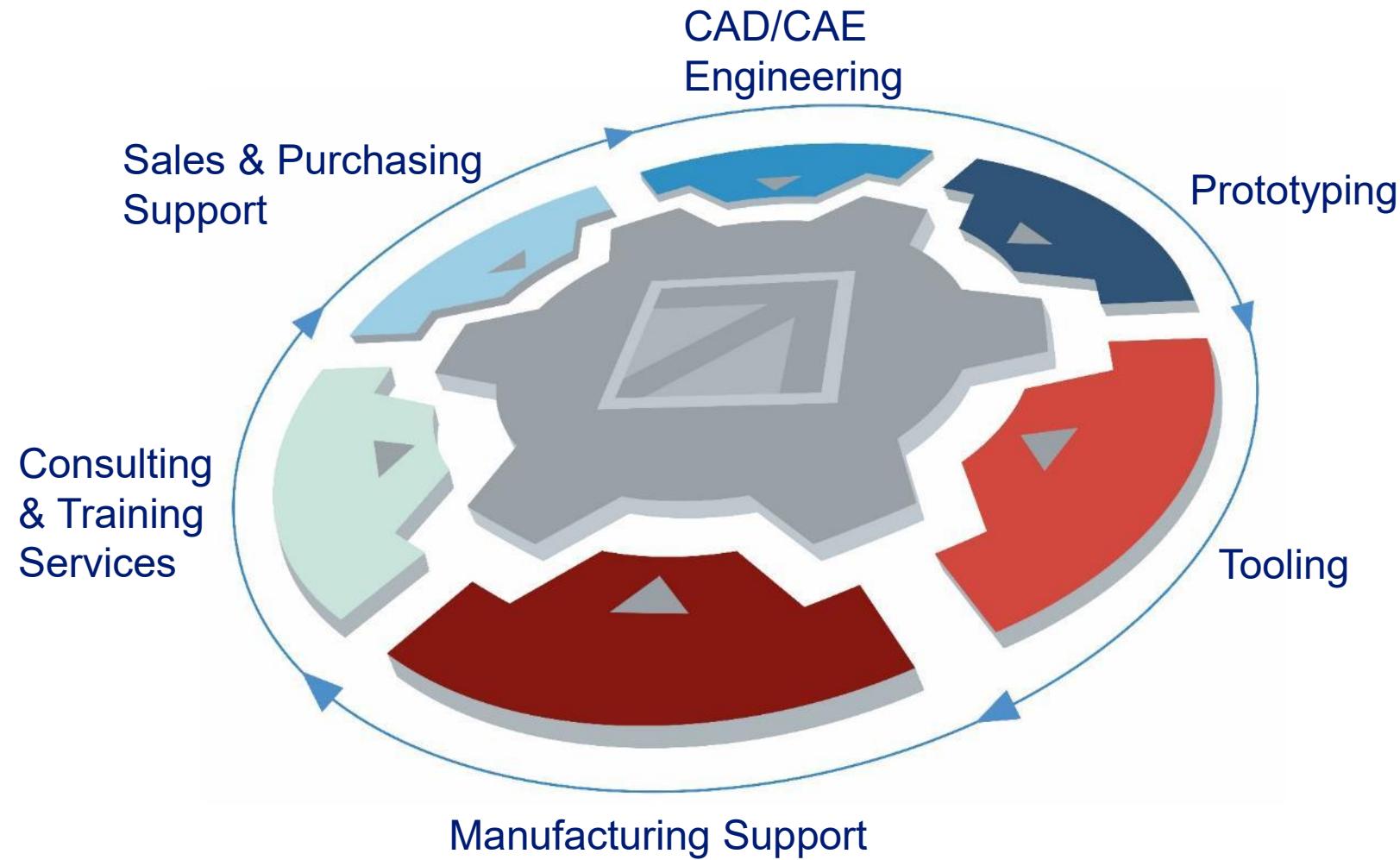


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# Service Modules

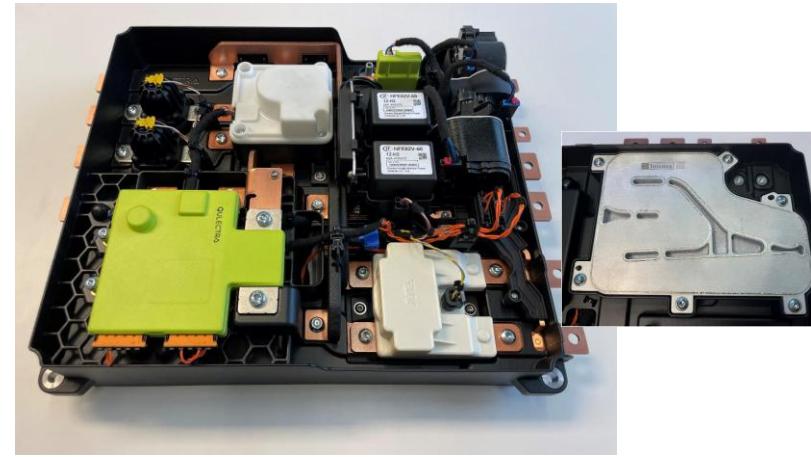


# Solutions for e-mobility



## ● Solutions for e-mobility

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

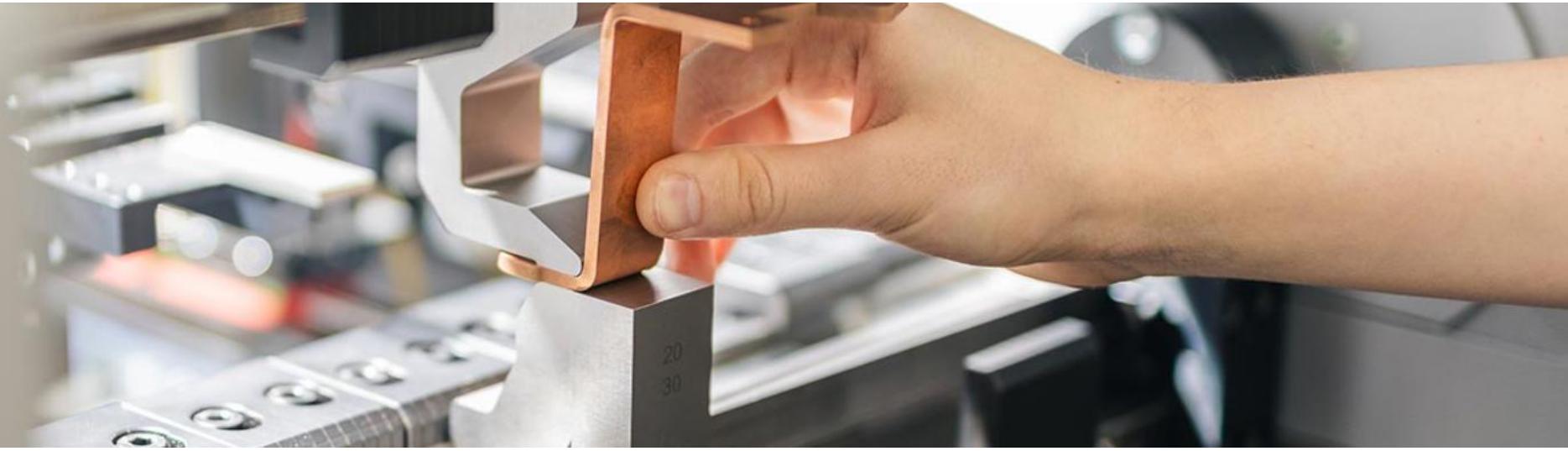


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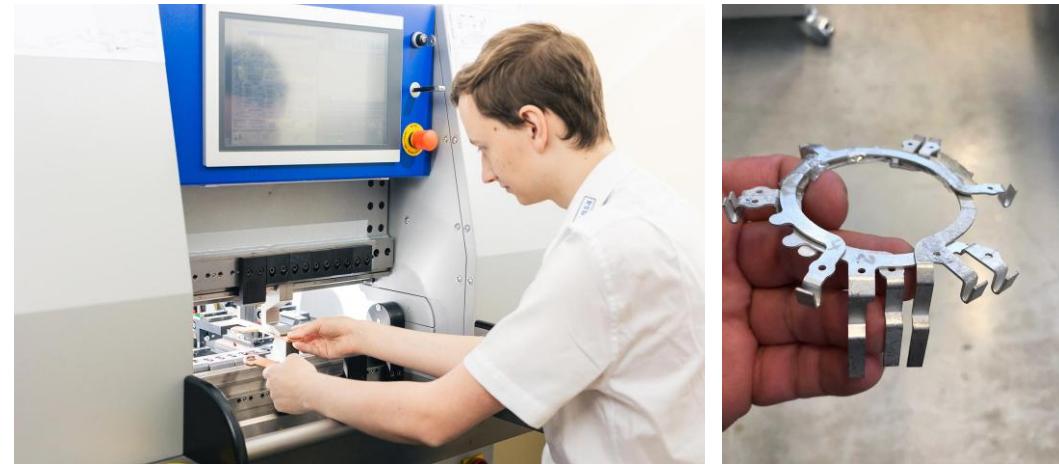
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# Sheet metal processing



## ● 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



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



Copper Busbars up to 5mm thickness



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# Plastic injection molding



## ● Plastic injection molding

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



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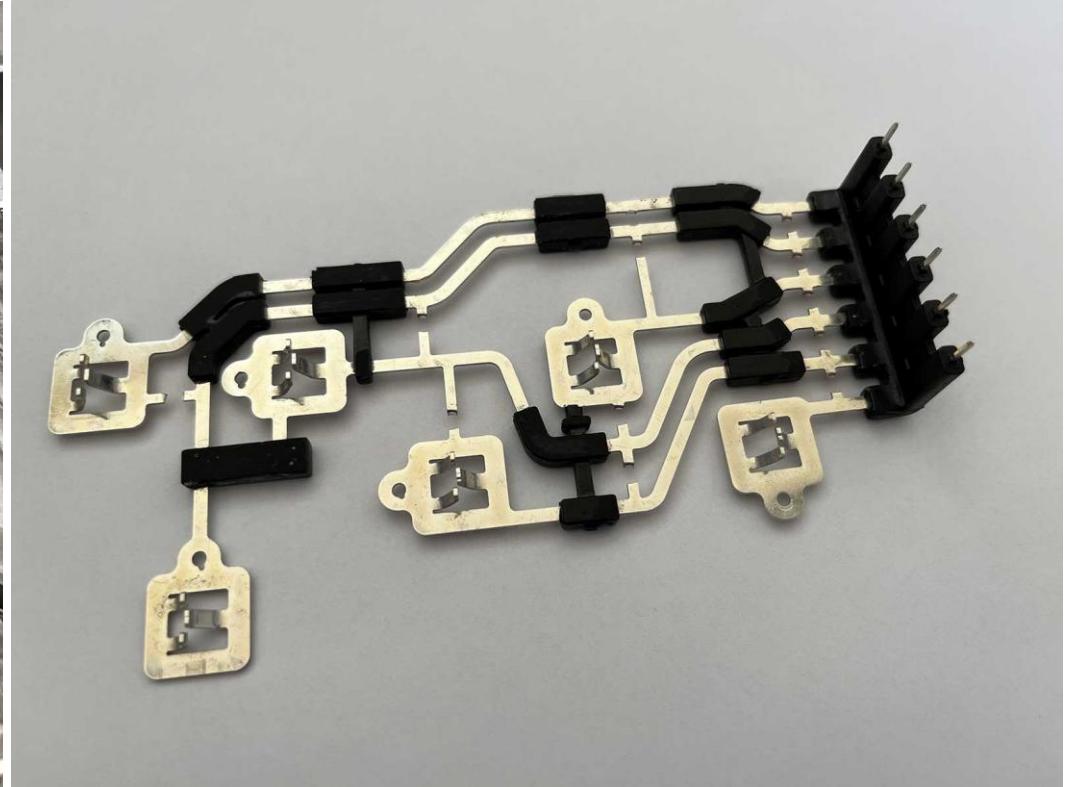
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# Prototyping Technologies



## Overmolded HV terminal and contact grid



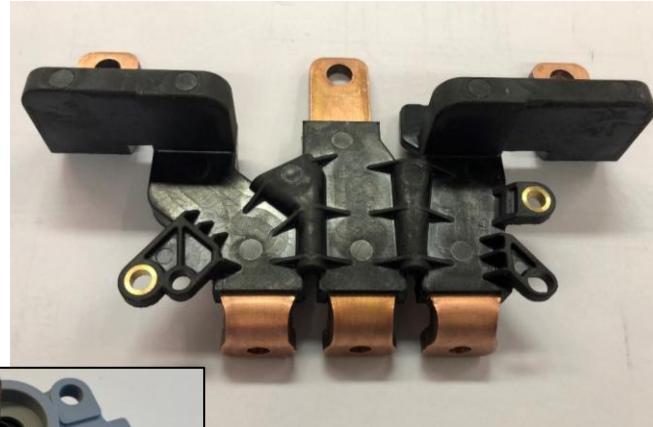
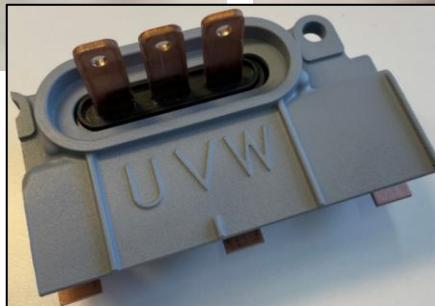
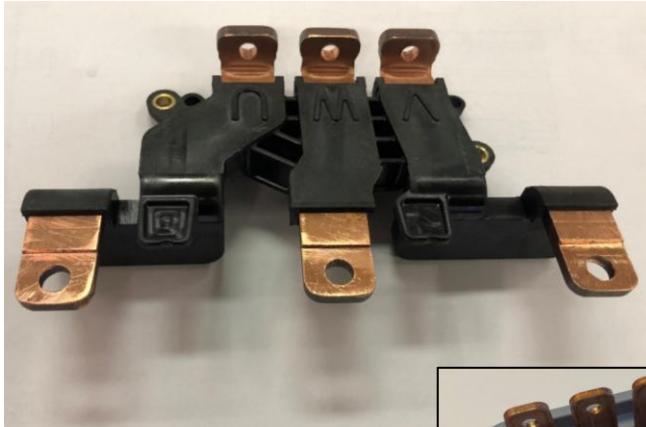
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# Prototyping Technologies

## Busbars



... make it happen !

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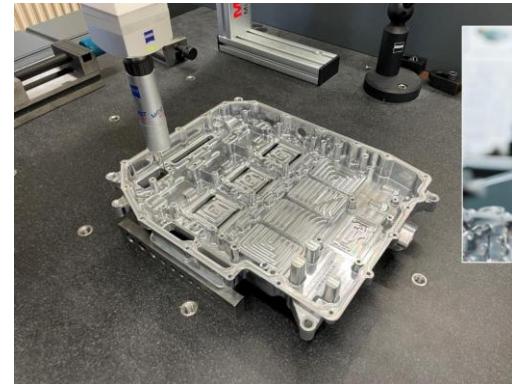
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# Die-cast parts



- **Die-cast parts**

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



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# Helix cables / flex shafts



## ● Helix cables / flex shafts

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

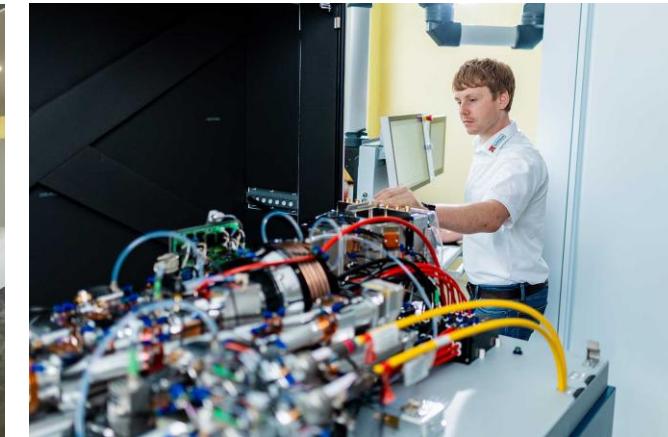


# Laser technology



## ● Assemblies / Small Series

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



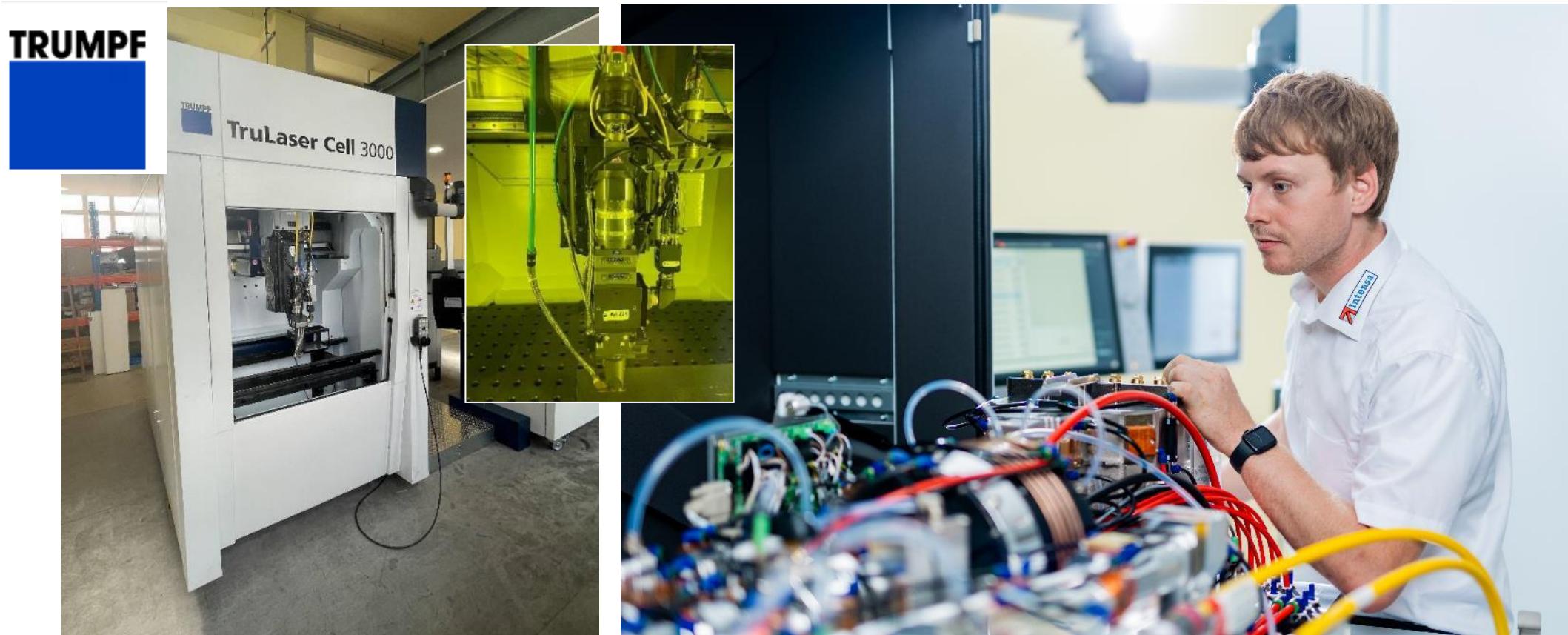
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# Prototyping Technologies

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

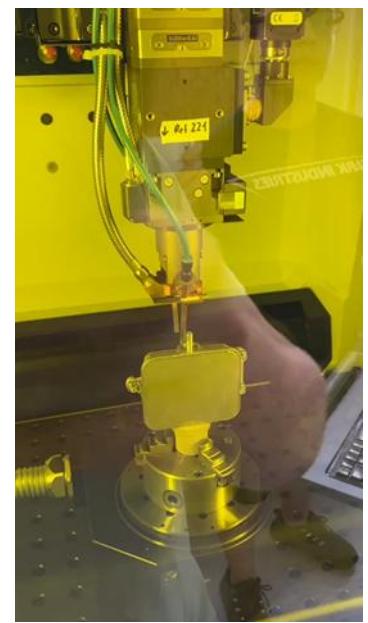
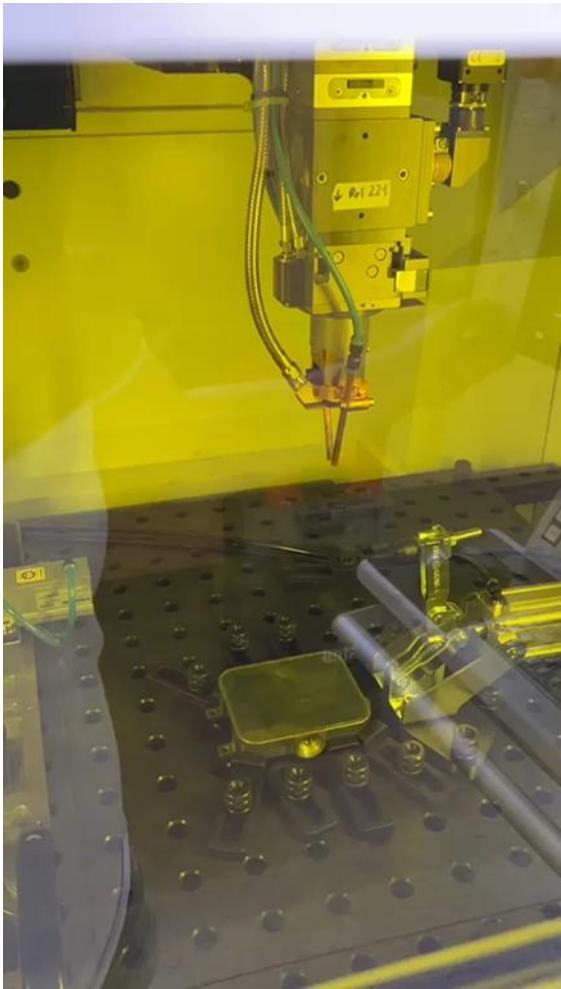


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# Trial housing die-cast part with stamped cooling lid



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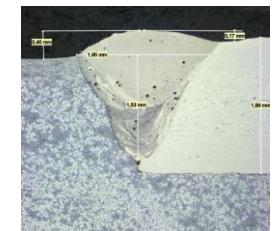
# Micrograph Probe Preparation (in-house Lab)



**Micrograph cuts: sawing, grinding,  
polishing and etching**



**Microscope measurement of  
weld seam depth, width and  
characteristics**



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# Laser Welding Leakage Testing



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

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# Assemblies



## ● 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

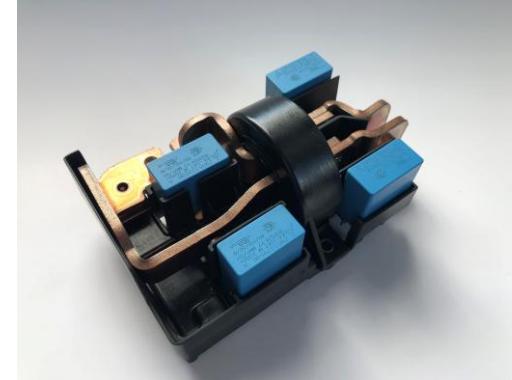


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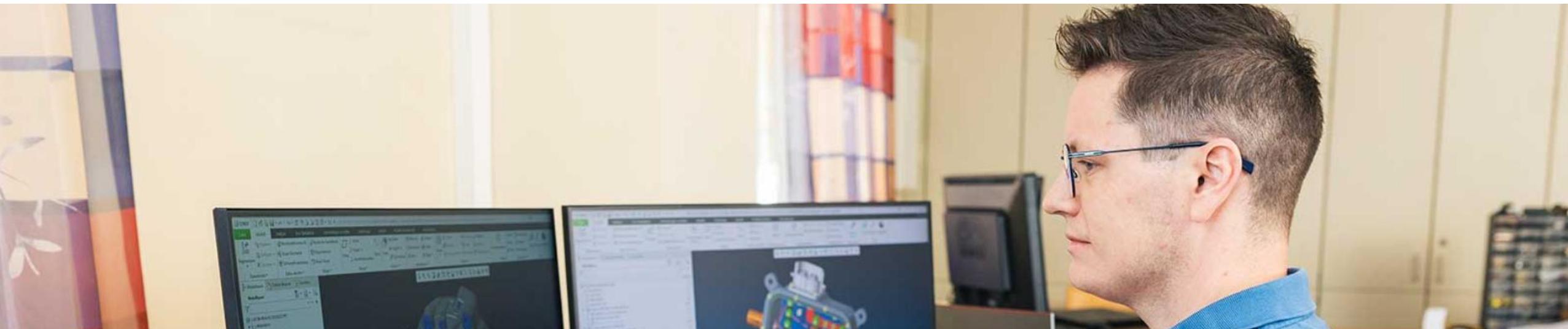
# WiresDC-Filter Assy. / EMC carrier plate



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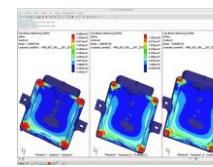
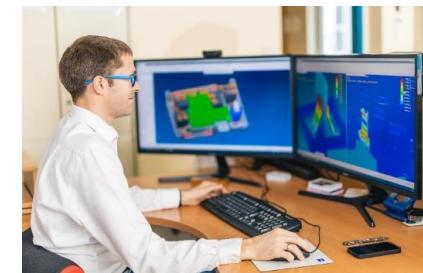


- **CAD/CAE Systems**

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

- **Simulation**

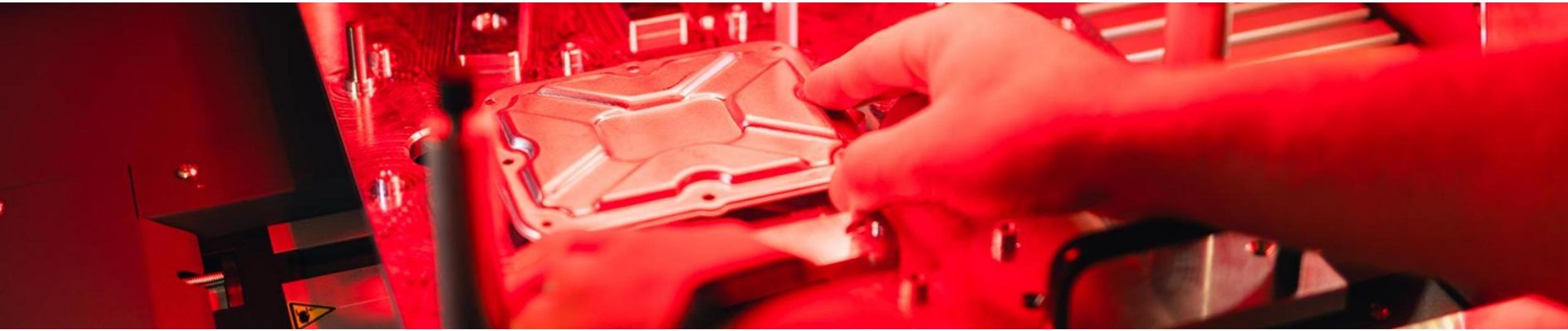
- Thermal and Mechanical simulation (Mechanica/Creo Adv. Simulate)
- PTC Creo™ creepage and clearance analysis
- Moldex3D (moulding simulation)



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## ● 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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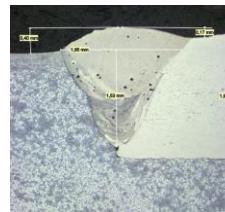
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## ● Measurement Systems

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

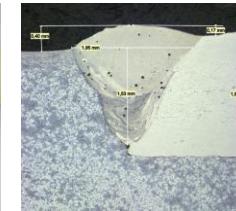


# Consulting and training



## ● 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



## Please contact us today with your inquiry:

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