

TRUMPF



TRUMPF Hüttinger

generating confidence

TRUMPF Hüttinger is a leading global manufacturer of power supplies for plasma applications, industrial heating, battery inverters, and solid-state microwave generators. Our solutions support key processes in research, development, and production.

In addition, we provide comprehensive Electronics Engineering & Manufacturing Services, providing scalable solutions with built-to-spec as well as built-to-print cabinets and PCBAs – from concept to series production.

As part of the TRUMPF Group, we're headquartered in Freiburg, Germany, with sales and service locations in Europe, the US, and Asia – offering global support.

LinkedIn

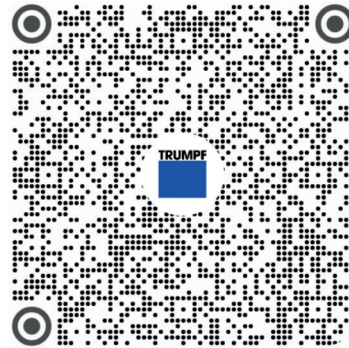


YouTube



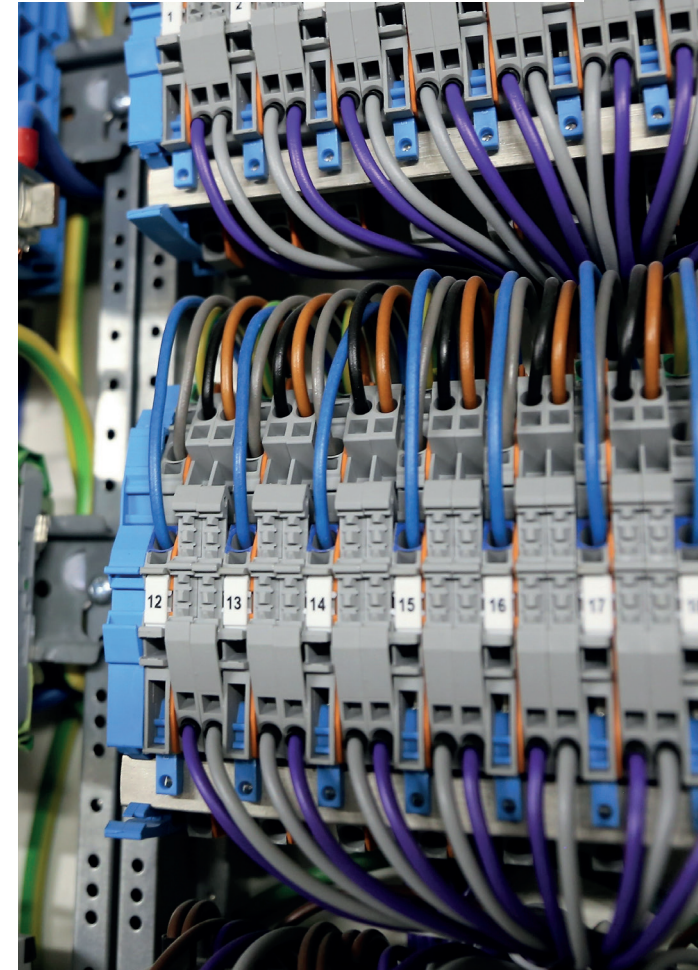
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Electronics Engineering & Manufacturing Services

Scalable cabinet and PCBA solutions



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Engineering/ Built-to-spec



Lean production/ Built-to-print



Qualification & Test

Electronic design	
Software	<ul style="list-style-type: none"> • RTOS • Embedded C • Python
Schematic	<ul style="list-style-type: none"> • Control Engineering • Power Electronics
PCB Design	<ul style="list-style-type: none"> • High density, current, speed • Rapid prototype (LPKF, multilayer) • Simulation (signal, power, EMC)

Cabinet assembly	
Capacity	<ul style="list-style-type: none"> • 25,000m² • >5,500 cabinets p.a. • 2x Komax, 1x Perforex
Module	<ul style="list-style-type: none"> • Manual / semi- / automatic assembly • Inline quality gates
Automation	<ul style="list-style-type: none"> • Wire manufacturing • Test design

Commissioning and final test	
Functional tests	<ul style="list-style-type: none"> • Fully automated • Customer specific • Statistic process control
Start up	<ul style="list-style-type: none"> • Programming • High accuracy calibration
Burn in	<ul style="list-style-type: none"> • Vibration • System test • Temperature cycles

Electrical and mechanical design	
Simulation	<ul style="list-style-type: none"> • Thermal • Comsol / HFSS / ADS • Power / signal integrity
Mechanics	<ul style="list-style-type: none"> • Cooling plates • Cabinet / housing • Design acc. IEC 61010-1
Electrics	<ul style="list-style-type: none"> • Safety acc. ISO 13849-1 • VDE 0113, EN 60204-1

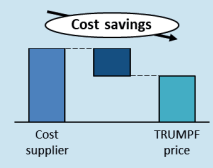
PCB assembly	
Capacity	<ul style="list-style-type: none"> • 22.000m² • >1.2 Mio PCBA p.a. • 8x SMT, 5x select., 2x wave THT
Testing	<ul style="list-style-type: none"> • AOI • ICT • X-RAY
Soldering	<ul style="list-style-type: none"> • 12 zone convectional • Vapour phase

Qualification	
EMC	<ul style="list-style-type: none"> • Conductive (150 kHz – 30 MHz) • Radiated (9 kHz – 1 GHz) • Immunity (EN 61000-4-2/-4/-5/-6)
HALT <small>(high accelerated life test)</small>	<ul style="list-style-type: none"> • -100 – +200 °C • 2 Hz – 10 kHz vibration • up to 1370 x 1420 x 2390 mm
Grid	<ul style="list-style-type: none"> • 75 kVA continuous, 630 kVA peak • 0 ... 320 Vrms



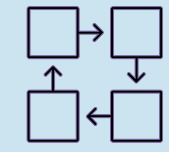
High flexibility:

- From single piece to high volume
- Engineering experience
- Supply chain management



Competitive prices:

- Due to high purchasing volume
- Dedicated competence center in Poland



High quality:

- Lean manufacturing
- Test engineering
- Obsolescence management