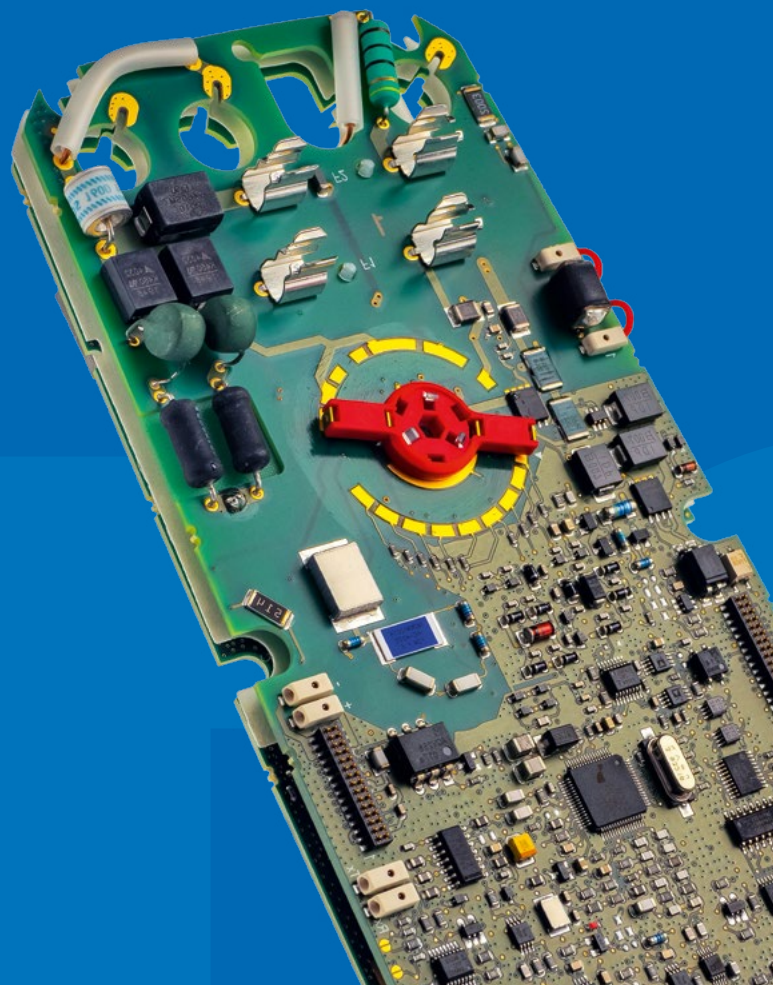


QUALITY, FLEXIBILITY, INNOVATION
ALL FROM ONE SOURCE



Welcome to MTP Messtechnik Produktions GmbH

We are your reliable contract manufacturer of electronic components, devices and systems. Our 120 competent and experienced employees produce high-quality electronics in small to medium lot sizes. Our large state-of-the-art machinery at Nuremberg forms the basis for this. On an area of 10,000 sqm production, industrial engineering and logistics are at your disposal.



Facts & Figures

- » Approx. 120 employees
- » Approx. 16 million euros revenue
- » Made in Germany – location Nuremberg (10,000 sqm)
- » State-of-the-art machinery for complete EMS services
- » Independent company in the GMC Instruments Group
- » Certifications: ISO 9001, ISO 14001

Our Market Segment as EMS Provider

- » **Electronics manufacturing:** production of electronic modules, devices and systems in small and medium quantities (1–25,000 pieces)
- » **Plastic injection moulding:** production of plastic parts and housings for your devices and systems
- » **Focus:** applications with high standards regarding quality and complexity

We adapt flexibly to your demands and customize our production to your needs. Our objective is to inspire you through commitment and excellence. As a professional partner we find the perfect solutions for you. For this we put ourselves in your shoes, think and act with foresight, and keep our commitments faithfully. Entrust your project to us: We cope with every technological challenge. And we count in all areas on slim and efficient processes according to LEAN methods.

Beyond the production „Made in Germany“ we offer you the complete production transfer and support services, including new product introduction (NPI), industrial engineering and testing equipment development. In addition there are purchasing and logistic services, among them global sourcing, international shipping, customs clearance and after-sales service.

Comprehensive personal consulting and support of your projects is important to us. With this brochure we would like to give you an impression of our working methods and services. We look forward to hearing from you!

Your management

of the MTP Messtechnik Produktions GmbH

Our services »

www.mtp-manufacturing.com/leistungen

DECO Design Technologies GmbH

Ihr Spezialist für dekorative und funktionale Kunststoffbearbeitung und Eingabesysteme

www.deco-dt.de





Electronic Manufacturing Services (EMS) from One Source

- » Production of samples, pilot series and series
- » SMT assembly
- » THT assembly
- » System integration
- » Testing & inspection
- » Plastic injection moulding
- » Pad and screen printing
- » New product introduction (NPI)
- » Industrial engineering
- » Purchasing and und material management
- » Logistics and fulfillment services

Sectors

- » Automation technology and robotics
- » Image processing and video technology
- » Electromobility
- » Building automation, smart home & building
- » Industrial electronics
- » IoT (Internet of Things)
- » Communication technology
- » Mechanical engineering
- » Health and medical technology
- » Measurement technology
- » Military, defence & aerospace
- » Sensor technology
- » ...

PREMIUM MARKEN
Partner



GOSSEN METRAWATT



SICHERHEIT IST ELEMENTAR

Seit 1906 stehen wir für elektrische Sicherheit und Kompetenz in der Mess- und Prüftechnik

www.gossenmetrawatt.com

PCB Assembly from Sample to Series Production

We offer you SMT assembly (Surface Mounted Technology) and THT assembly (Through Hole Technology) – from the first sample to small and medium series of up to 25,000 pieces.

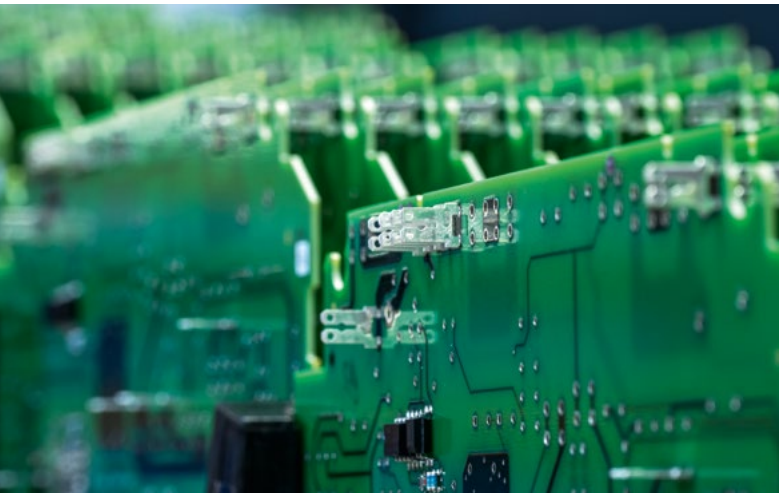
On our SMD lines (Surface Mounted Devices) with efficient and high-precision Siplace placement machines we realize double-sided SMD assemblies as well as assemblies with glue. We handle components up to type 0201 and finepitch up to 0.2 mm. For THT assembly laser guided assembly tables as well as an Ersma full tunnel nitrogen wave soldering system are at our disposal.

Our consistent concept for material tracking practically excludes misplacements. On request we provide your assembly with conformal coating or potting. We inspect your assembled components by AOI system (automatic optical inspection), in-circuit test (ICT), flying probe test (FPT), boundary scan test (BST) and, if necessary, by X-ray.

SMT and THT Assemblies

We provide the industrial series production of your electronic assemblies.

- » Surface mounted technology / SMT assembly
 - » Placement rate approx. 100,000 BE/h
 - » Adhesive and soldering paste technology
 - » Leaded and RoHS
- » Through hole technology / THT assembly
 - » ERSMA full tunnel nitrogen wave soldering system
 - » Manual placement according to drawing or placement program
 - » Leaded or RoHS



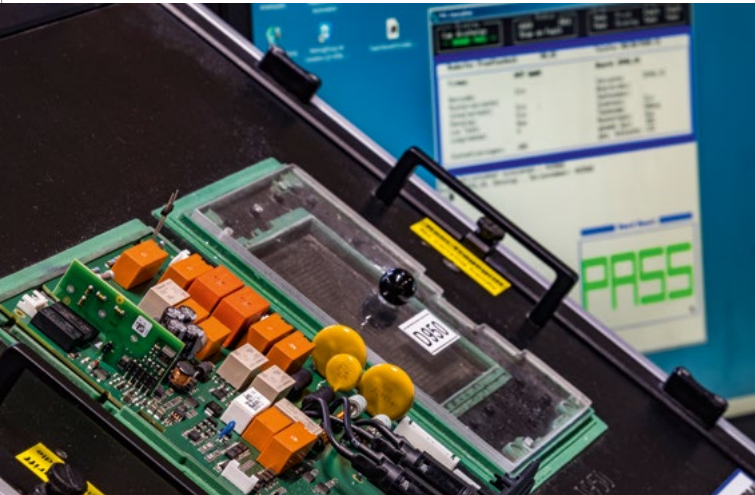
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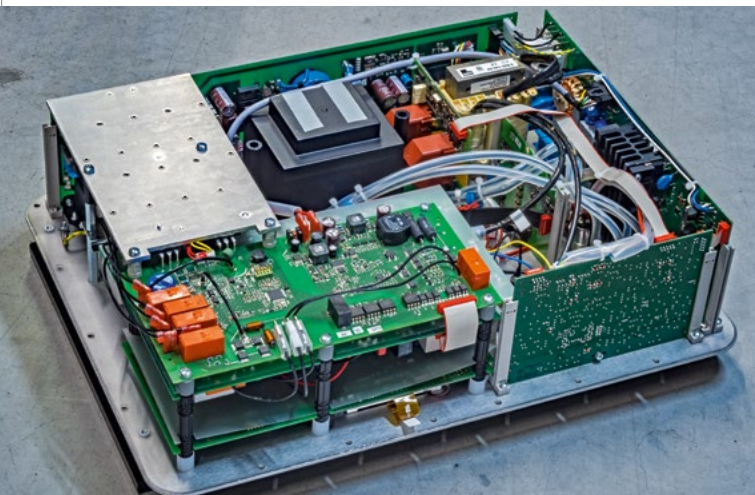


An der Steige 10, 90613 Großhabersdorf
Telefon: 09105 / 9011 · info@pohl-formenbau.de



System Integration

In our final assembly department we mount your electronic devices and systems. We offer you complete system integration: We handle housings, wirings and all other assembly parts. In addition we take care for cable assembly, cable harnesses and the programming of your devices and systems. You get complete high-quality products from one provider, including manuals and packaging – from initial samples to industrial series production.



Testing and Inspection

Our customized inspection concepts ensure highest quality. We offer you:

- » Inspection concept and test equipment planning
- » Test equipment development and construction (hardware and software)
- » Assembly inspection with AOI system (automatic optical inspection), in-circuit test (ICT), flying probe test (FPT), boundary scan test (BST) and, if necessary, X-ray
- » Functional test (among others with LabView, Cobots, endurance test facilities, if necessary, including programming)
- » High-voltage testing
- » Initial operation of your devices and systems (including trouble shooting and adaptation)
- » Management of test tools (service, calibration, maintenance) including certification of the DaKKS (German Accreditation Body)



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für elektronische
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New Product Introduction (NPI)

We transfer your development results to serial production. Our experts for industrial engineering and purchasing are permanently at your disposal for development support, definition of inspection concepts, component selection, obsolescence management and production optimization. Our own equipment production ensures the quick and reliable implementation at the shop floor. We support your products continuously from the development stage to the production of samples and pilot series to serial production and delivery. Our objectives are optimum production and inspection processes as far as costs and quality are concerned as well as a swift and trouble-free serial production with as few re-design cycles as possible.

Purchasing, Material Management and Logistics

We procure all the necessary components for your products, like electronic parts, printed circuit boards (PCBs) and mechanical parts according to your requirements. To that end our purchasing department conducts professional global sourcing. Alternatively you can provide the needed components completely or partially. After manufacturing your product we offer you a broad range of fulfillment services including storage, consignment sale, late configuration, customs clearance, packaging and shipping.

Our services »

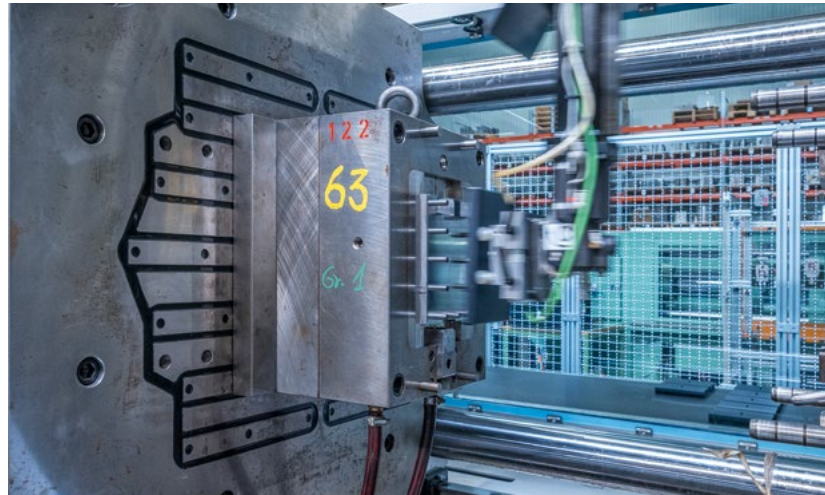
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Karl Roth GmbH | Anemonenweg 10 | 90768 Fürth
Tel.: 09 11 / 76 19 06 | info@karl-roth.de | www.karl-roth.de



CNC-Bearbeitung – Drehen – Fräsen – 3D-Messen



Plastic Housings and Parts

The field of plastic injection moulding is a separate service offer of MTP. On the one hand you receive through us the plastic housings and parts which are needed for your devices and systems produced by MTP. On the other hand you get moulded parts which you can use for any other devices.

Further more we process your plastic parts flexibly and in high quality. We offer services including ultrasonic welding, pad printing, screen printing and laser marking.

Processing of Plastic Parts at a Glance

Machines

- » 11 injection moulding machines with one interlock (25 to 300 t)
- » Maximum shot weight: 590 g
- » With automatic material suction via dry air unit

Available Plastic Materials

- » About 70 plastic granules and 40 colour masterbatches
- » 12 plastics by vacuum conveyor system with dry-air drying
- » Colouring units for direct colouring

Injection Moulds and Parts

- » Currently approx. 600 different injection moulds (one to four parts resp. family moulds)
- » Maintenance, modification and changes in our own mould construction
- » Approx. 700 different injection moulded parts including variants



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Qualität seit 1994

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MTP from Nuremberg is an EMS (Electronic Manufacturing Services) provider for the complete range of services concerning the production of electronic modules, devices and systems.

We are your partner on site in the region of Nuremberg-Erlangen as well as in the whole of Bavaria and Germany. MTP supports its customers cooperatively from electronics development to sample and serial production, including consulting, purchasing and logistics services as well as after-sales support.



Our range of services includes development support, NPI (new product introduction), industrial engineering, printed circuit board assembly (SMT assembly and THT assembly), final assembly and system integration, testing and inspection as well as the production of plastic injection moulding parts and housings. In addition there are diverse purchasing and logistics services like component selection, obsolescence management, global sourcing and fulfillment services. Customers of MTP are from all sectors, e.g. automation technology, image processing and video technology, electromobility, building automation, industrial electronics, communication technology, mechanical engineering and measurement technology. As an independent company in the GMC Instruments Group MTP has about 120 employees.

- Individuelle Lösungen nach Kundenwunsch -

- Wir fertigen Transformatoren, Drosseln, Übertrager, Spulen etc.
- Wir produzieren Sonderbauformen nach Kundenvorgabe
- Wir vergießen mit PU-Harz und imprägnieren mit emissionsarmen Tränkharzen im Vakuumverfahren
- Wir übernehmen Baugruppenmontagen, inkl. Teilebeschaffung, CNC-Bearbeitung und Oberflächenveredelung
- Wir begleiten Sie bei der Neuentwicklung Ihrer Produkte inkl. Prototypen und Nullserienfertigung
- Nutzen Sie unsere Erfahrung!
- Fordern Sie unsere Flexibilität!
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Internet: www.ktb.de