



PRECISION ENGINEERING from Jena
Location for the advanced.

**PRECISION ENGINEERING
FROM JENA**

Contact JenaWirtschaft – Business Development

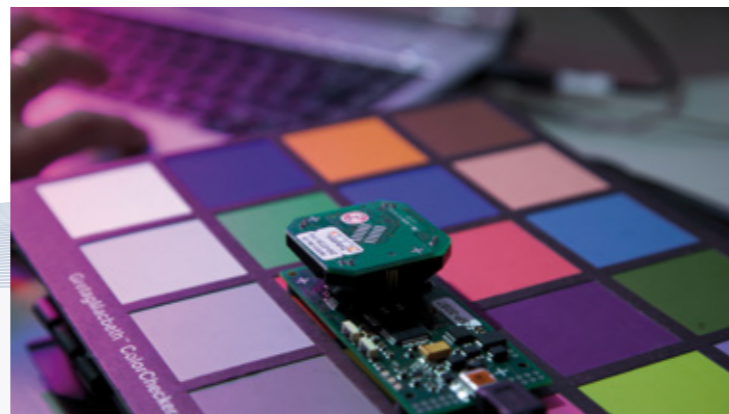
Would you like to contact Jena's companies or gather information on the location?
We provide competent, discreet and free advice.

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Experts for technological processes ...



Nowadays, the manufacturing of high-quality scientific and technological devices is inconceivable without specialized suppliers in fields such as fine mechanics, precision processing, electronics, prototype construction, plastics technologies and so on. A large number of these suppliers have settled in Jena. They make sure that a great variety of products sought-after worldwide benefit from Jena's know-how and guarantee a quality setting international standards.

Great attention to details ...

In 1871, the best microscope made by Jena's Carl Zeiss Company cost 127 thalers in 1871. One year later, the top microscope cost 387 thalers. There was a good reason for this price increase: the construction of the company's latest models was completely based on Professor Abbe's theoretical calculations. None of the competing products were comparable to the quality of Zeiss microscopes. Despite the price increase, these systems sold very well, profits increased and Jena's entrepreneurs realized that reproducible precision is a formula for business success.

Today, a great variety of businesses from the precision engineering sector are settled in Jena. They offer a wide range of products and services from mechanics, to optics and electronics as well as electrical systems to implement the reproduction of technological processes. As with Abbe and Zeiss, theoretical research and knowledge are the foundations of practical application and economical success.

In Jena, the most important areas of research in this field include fine, micro, nano and surface technology as well as new, innovative materials. These newly developed materials are being analyzed with respect to their properties and usability in a chemical, medical and biological as well as physical and optical context.

Many companies in Jena have emerged from the traditional line-up of optical technologies. Other, newly founded companies contribute additional sought-after competencies with their range of services. For manufacturers that means having easy access to the necessary range of local suppliers to develop, manufacture and sell their products worldwide with the label "Made in Jena".

Jena's networks make a significant contribution. They facilitate the initial contact between different partners and offer a professional platform for discussions and joint projects. The networking group "Precision from Jena" facilitated by BVMW brings businesses together that are based in the area and operate in the field of optical, technical and precision engineering as well

as closely related sectors. This networking group promotes cooperation, organizes expert conferences and workshops and supports networking among its members. Additionally, marketing projects are being implemented to promote members and their range of services outside of the region.

Jena's businesses find excellently trained staff at the local universities. For example, graduates from the Institute of Materials Science and Technology as well as from the Faculty for Physics and Astronomy which are both part of the Friedrich Schiller University. Graduates from the University of Applied Sciences Jena are being trained at the SciTec Department which combines precision, physics and materials engineering as well as at the Departments of Mechanical and Electrical Engineering. Jena's vocational schools and institutions for continuing education also support companies by training future experts.

Business activities on location ...

Competencies from various fields of precision engineering come together in Jena. Business activities include:

- Mechanical construction, optical design, CAD, modeling & simulation
- CNC milling, lathes, grinding, machining
- Laser and surface technology
- Micro and nano technology
- Innovative materials (for example glass, optical glass, ceramic glass, nano materials, metals and alloys, synthetics, biomaterials)
- Biomedical engineering, (Bio) interfaces
- Electronic design, chip design and opto-electronics; PCB-service, assembly manufacturing and installation
- Drive and gear system technology; servo drives, mechatronic systems; piezoelectric drives
- Micro and nano positioning
- Adapting equipment, transformers
- Linear and rotatory measuring
- Vacuum components and measuring technology
- Mould construction, processing of plastic materials, rapid prototyping
- Joining, adhesive and welding technology

- Tool manufacturing, special-purpose machine construction, prototype construction
- Control and automation engineering
- Industrial coatings, wet coating, powder coating, electroplating, mechanical surface treatments
- Industrial markings such as mechanical and laser engraving; digital, screen and pad printing
- Serial production and installation of electronic, optical and mechanical assemblies and devices
- Quality management, measuring and testing technologies, documentation

The name "Jena" stands for quality ...

-4H- JENA engineering GmbH • ABS Gesellschaft für Automatisierung, Bildverarbeitung u. Software mbH • AISAtch Ingenieurbüro Trümper • Brooks Automation (Germany) GmbH • EPSa GmbH • FEG Fein- und Elektronikgerätebau Jena GmbH • Feintool System Parts Jena GmbH • GOT Gesellschaft für Oberflächentechnik mbH Jena • HEMA Formenbau + Kunststoffverarbeitung GmbH • iKTZ – Innovative Klebtechnik Zimmermann • IMB Industrieofen- und Maschinenbau Jena GmbH • INTRON - Gesellschaft für digitale Farbtransferdrucktechnik mbH • Ingenieurbüro Heuer • Jenaer Antriebstechnik GmbH • Jenaer Feinblech GmbH • Jenaer Gewindetchnik GmbH • Jenaer Leiterplatten GmbH • JenControl GmbH • jennpneumatik & Schlauchtechnik GmbH • JSJ Jodeit GmbH • Kontinent Spedition GmbH • Langer Metall & Werkzeug GbR • LightTrans GmbH • LUCAS instruments GmbH • Matthias Wetzel INDUSTRIEBESCHRIFTUNGEN GmbH • MAZeT GmbH • ML&C GmbH • MUT Advanced Heating GmbH • NUMERIK JENA GmbH • OLPE Jena GmbH • Optikron GmbH • PAD-Präzisionsautomatendreherei Jena GmbH • Pelzer Maschinenbau- und CNC-Zerspanungstechnik GmbH • piezosystem jena GmbH • Präzisionsfertigung G. Kirsch • PTS Jena GmbH • PVA Löt- und Werkstofftechnik GmbH • SBA-Trafobau Jena GmbH • Sczesny Werkzeugbau GmbH • SILICON CONTROL GmbH • SOMAG AG Jena • Specht Optikmaschinen GmbH & Co. KG • Speck Sensorsysteme GmbH • Supracon AG • Sypro Optics GmbH • Transcom.Ingenieurbüro Johannes Graubner • TÜV Thüringen e.V. • VACOM Vakuum Komponenten & Messtechnik GmbH • Vistec Electron Beam GmbH • Vitron Spezialwerkstoffe GmbH • WIEGEL JENA Feuerverzinken GmbH & Co. KG • ZI Jena GmbH Werk für Feinblechtechnik

Networks, Research and Education ...

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A great variety of companies from the precision engineering sector are located in Jena today.