



PRECISION ENGINEERING FROM JENA

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.

Appreciation of details ...

The best microscope made by Jena's Carl Zeiss Company cost 127 thalers in 1871. One year later, one had to pay 387 thalers for the top microscope. There was a good reason for this price increase: From that point of time, the construction of the company's latest models was completely based on Professor Abbe's theoretical calculations. None of the competitive products were able to keep up with the quality of Zeiss microscopes. Despite the high price, the systems were sold in large numbers, the turnover increased and Jena's people realized that reproducible precision was a formula for success in the business.

A great variety of companies from the precision engineering sector are located in Jena today. They offer various products and services ranging from mechanics to optics and electronics up to electrical systems in order to put the reproducibility of technological processes into effect. The foundations for practical application and economical success are theoretical research and knowledge – just as for Abbe and Zeiss.

Many companies in Jena join or have emerged from the traditional line-up of optical technologies. Other newly founded companies contribute competences in demand with their fields of activities. Constructors of devices can be sure to find many suppliers necessary to develop, manufacture and sell their products to the world with the label 'made in Jena' within the city boundaries. Jena's networks make a significant contribution. They help accelerate the proceedings of establishing contacts between different actors and offer a professional platform for discussions and mutual projects.

Jena is home to the professional BVMW section "Precision from Jena". It pools companies in and around Jena working in the fields of optical, technical and precision engineering and neighboring sectors. This professional section encourages cooperation, organizes expert conferences and workshops and supports the networking of its members. Not least, it consistently

implements various marketing projects in order to put the fields of activities of the local companies on the world's technological map.

Companies located in Jena will find fully-fledged employees in Jena's two universities, for instance among the graduates of the Institute of Materials Science and Technology and the Faculty for Physics and Astronomy at the Friedrich Schiller University. The University of Applied Sciences Jena offers eligible employees with its SciTec Department combining precision, physics and materials engineering as well as with its Departments of Mechanical and Industrial Engineering. Jena's professional schools and continuing educational institutions support companies in the training of future experts as well.

Business activities on location ...

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

- Mechanical constructions, optical design, CAD, software
- Electronic design, assembly manufacturing and installation; chip design and opto-electronics; PCB-service
- CNC milling, lathes, machining, grinding; wire-cut EDM, high-speed mills, sheet metal forming
- Drive and gear system technology; servo drives, mechatronic systems; piezoelectric drives
- Micro technology, micro- and nano-positioning
- Industrial coatings, wet coating, powder coating, electroplating, mechanical surface treatments
- Linear and rotatory measuring
- Vacuum components and measuring technology
- Adapting equipment, transformers
- 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 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 • Brooks Automation GmbH • EPSa GmbH • FEG Fein- und Elektronikgerätebau Jena GmbH • GOT Gesellschaft für Oberflächentechnik mbH • HEMA Formenbau + Kunststoffverarbeitung GmbH • iKTZ - innovative Klebtechnik Zimmermann • IMB Industrieofen- und Maschinenbau Jena GmbH • INTRON Jena - Gesellschaft für digitale Farbtransferdrucktechnik mbH • Jenaer Antriebstechnik GmbH • Jenaer Feinblech GmbH • Jenaer Gewindetechnik GmbH • Jenaer Leiterplatten GmbH • JenControl GmbH • jennpneumatik & Schlauchtechnik GmbH • JSJ Jodeit 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 • Promera Jena Feinschneid- und Umformtechnik GmbH • PTS Jena GmbH • PVA Löt- und Werkstofftechnik GmbH • SBA-Trafobau Jena GmbH • SCZESNY Werkzeugbau GmbH • SILICON CONTROL GmbH • SOMAG AG Jena • Peter Specht Optikmaschinen GmbH & Co. KG • Speck Sensorsysteme GmbH • Supracon AG • Sypro Optics GmbH • Transcom • 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

Networks, Research and Education ...

Beutenberg-Campus Jena e.V. www.beutenberg.de
Fraunhofer Institute of Applied Optics and Precision Engineering IOF www.iof.fraunhofer.de
Friedrich Schiller University Jena:
• Faculty of Physics and Astronomy www.physik.uni-jena.de
• Institute of Materials Science and Technology www.matwi.uni-jena.de
Günther Köhler Institute for Joining Technology and Material Testing www.ifw-jena.de
INNOVENT e.V. Technology Development Jena www.innovent-jena.de
Institute of Photonic Technology www.ipht-jena.de
Representation of Interest
Commercial Zone Jena-Süd (IGSJ) www.ig-jena-sued.de
Representation of Interest
Commercial Zone Nord (IGN) www.ig-jena-nord.de
NanoReplica www.nanoreplica.de
Precision from Jena, BVMW www.praezision-aus-jena.de
Technology and Innovation Park Jena www.tip-jena.de
Centre of Education and Professional Qualifications ZIFW www.zifw.de
University of Applied Sciences Jena:
• SciTec Department www.scitec.fh-jena.de

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

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.

JenaWirtschaft
Wirtschaftsförderungsgesellschaft Jena mbH
Markt 16 • 07743 Jena • Germany

Phone: +49 (0) 3641/87 300 30
Fax: +49 (0) 3641/87 300 59
Email: jenawirtschaft@jena.de
Web: www.jenawirtschaft.de



*»Solid joints aligned in a parallelogram for zero tolerance, highly parallel piezo-electric motion in x/y direction, optional provided with built-in movement sensors DMS or capacitive ...«**

Precision Engineering from Jena
Location for the advanced.