



THANK YOU FOR YOUR INTEREST IN SUPRACON.

We invite you to learn more about our advanced technology, our innovative company, and the commitment of our employees in the forthcoming pages.



## PHILOSOPHY

Our strongest motivation is to benefit our customers by providing advanced products and services as well as first-class advice and support.

We develop products which are geared towards customer needs, and therefore regularly produce innovations.

Supracon is committed to quality products and constant improvement in order to further extend its market position.

**... beyond the noise**



# Company



**Competence**

**Experience**

**Innovation**



## PROFILE

Supracon is a globally operating high tech company which has specialized in the development, fabrication, and marketing of ultra-sensitive superconductive sensors and measuring systems.

Supracon`s roots can be traced back to the pioneering times of superconductor electronics, and over 30 years of experience in SQUID (Superconducting Quantum Interference Device) development and application in Jena.

Supracon, a spin-off from the Institute for Physical High Technology (IPHT), incorporates know-how of SQUID fabrication and application, as well as of micro-fabrication technologies and micro assembly in a single company.

Supracon has access on demand to the technical and technological infrastructure of the IPHT and in particular to its modern clean room.

The unsurpassed commitment of our team, consisting of highly qualified engineers, physicists, and business economists is the key to our success. The founding partners have ensured focused product development since the beginning in 2001.

The company`s competence prospers from the renowned and lively Jena Superconductor Community and from a widespread network of international collaboration.

The innovative power of Supracon, its committed employees, its experience and competence allows Supracon to offer unique products according to customer demands.



# SQUID Technologies



**Quality**

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**Problem solving**

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**Product safety**

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## FROM SQUID SENSOR TO SYSTEM

Supracon is the partner on your side when you require extremely low noise SQUID sensors and systems. The company has gathered a reputation as a leading supplier of customized SQUID solutions for high-technology applications.

The SQUID sensors, available from Supracon, are based on Low-Temperature Superconductor (LTS) technologies. Our product range comprises various types of SQUIDs such as current sensors, magnetometers, and gradiometers as well as a variety of packaging options.

The unique Jena SQUID System (JESSY) combines our advanced SQUID sensors with high performance electronics and special control software. It is designed as a customer friendly plug-in solution, which allows easy extension from one to multi-channel systems.

Supracon is committed to continuous product improvement and permanently develops new SQUID sensor models and systems. The company has acquired a proven record as a good research partner for universities, research institutes and industry.

Supracon has designed, developed, and manufactured components and systems for biomedical imaging, geophysical exploration, astrophysical applications, and research purposes.





# Microfabrication Services



**Precision**

**Reproducibility**

**Process safety**

## FROM IDEA TO REALIZATION

Supracon Microfabrication transfers its experience and techniques, resulting from the SQUID sensor fabrication process, to customer specified substrates and materials.

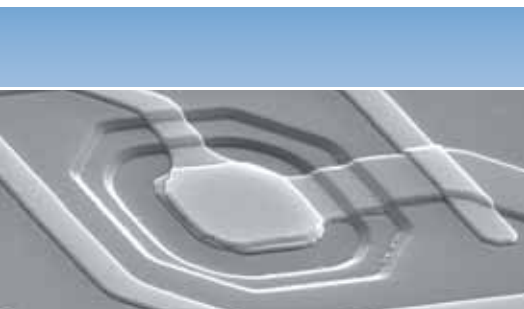
A highly sophisticated thin-film technology has been developed for the fabrication of Supracon SQUID sensors. This includes different deposition methods for metallic and dielectric films, pattern definition by optical or e-beam lithography, and pattern transfer into the films by wet chemical or dry etching methods.

The company has a lot of experience with pattern transfer of deep sub-micron resolution or with very high aspect ratios. This is realized by lithography in combination with specially adapted etching procedures.

The microfabrication processes require very complex equipment which is installed in a modern clean room and used by Supracon for process development and device fabrication.

Supracon Microfabrication offers:

- Performing of highly specialized process steps at Supracon as part of customer device production cycle.
- Complete thin film technological fabrication of customer devices.
- Development of customer-specific micro-fabrication steps or complete processes, including technology transfer to the customer.





If you require further information or want to discover  
the secret of the snowflake please see our website at:

[www.supracon.com](http://www.supracon.com)



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