



Steinbeis Consulting Centre
Design. Materials. Standardisation.



Steinbeis Consulting Centre

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Setting the standard for cost-effective development processes and professional tolerance management in engineering and design, manufacturing and quality assurance - worldwide

www.toleranzen-beratung.de



About us

As a member of the global **Steinbeis Network** for over two decades, our engineering consultancy has been providing clients at home and abroad with professional and scientific support to implement a customised tolerance management system that will measurably speed up their product development processes and significantly reduce their engineering and design, manufacturing and inspection costs.

The services we offer our clients include practical, target-group-specific seminars, consulting and workshops for engineering and design, manufacturing, quality assurance and inspection. Our service portfolio also features expert team training and the preparation of expert reports and assessments in connection with claims or lawsuits.

Our clients include companies from almost every industrial sector, for example the automotive manufacturing and supply industry, heavy and special engineering, medical engineering, precision engineering, watch- and clock-making, metrology and optics, electrical engineering and electronics, and the aerospace industry.

We are able to draw on many years of relevant, practical experience gained from, at the last count, over 2,000 projects with clients all over the world, as well as on the pedagogical and professional experience of our team of experts. This allows us to provide our clients with fast, professional support even for complex matters, and to develop cost-effective solutions that meet the highest professional and scientific standards.



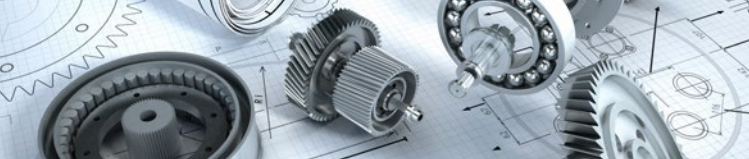


Project management

Implementing a tolerance management system in your company based on the ISO GPS standards for engineering/design, work preparation/manufacturing and quality assurance/inspection is a costly, time-consuming process that takes several years. In our experience, it calls for meticulous planning and information and systematic implementation.

We will analyse and assess the status quo in your company (e.g. the quality of existing product specifications, manufacturing and verification strategies, internal and external communications, quality assurance processes and claims management). Drawing on our extensive experience, we will devise a project plan and provide support in the form of customised seminars, consulting and workshops, expert team training, development of design specifications that comply with current and relevant standards, and coordination with your regional and global customers and suppliers.





Workshops and drawing reviews

The real challenge for users comes when they have to implement the knowledge acquired during the technical seminars in a practical engineering setting where they have to take the specified functional, manufacturing, metrological and economic parameters into account. We offer client **workshops** (on-site or online) to facilitate the transfer of theoretical technical knowledge into engineering practice and the optimisation of existing product specifications.

Since the cost of correcting errors rises by a factor of 10 at every individual stage of the value chain, it makes sense to identify inaccurate, ambiguous, incomplete or not standard-compliant or functionally compliant product specifications at the early stage of product development. We carry out professional drawing reviews to assess the quality of your product specifications so that any tolerancing and associated engineering errors can be identified and eliminated as early as possible. We also recommend **drawing reviews** for pending claims and for planning the implementation of a tolerance management system in your business.





Consulting

Technical standards in the field of tolerance management (e.g. ISO GPS) can change rapidly and are sometimes revoked without being replaced. Meanwhile, a multitude of new and in some cases complex standards are constantly being introduced.

Although these standards are used permanently (e.g. when producing an engineering drawing), people rarely have the time to study them in detail. Significant changes to standards can sometimes go unnoticed, and the complexity of implementing them in practice is frequently underestimated, especially in the case of international standards, which tend to be rather abstract. However, we know from experience that failure to correctly implement the relevant standards can have far-reaching consequences.

With our customised **consulting** service tailored to your company's specific challenges, we help you to implement the relevant standards in engineering practice and optimise your engineering drawings and inspection processes.





Reports and claims

Engineering drawings that you receive from your clients or pass on to your suppliers are legally binding contractual documents. If these documents are going to be used as the basis for producing components, developing costly moulds or making valuable, safety-critical workpieces, they should be meticulously checked before a contract is concluded.

If a complaint or **claim** has already been made, we can provide you with arguments to put to your contractual partners, based on a detailed analysis of the drawings. Without this, a lack of technical knowledge (about the relevant standards) can quickly leave you in a legally weak position when it comes to arguing your case. We will also give you an assessment of your chances of winning a lawsuit.

In the unfortunate event that a lawsuit cannot be avoided, we will prepare **expert reports** and **assessments** relating to the disputed specifications.





Contact

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Steinbeisstraße 18
73614 Schorndorf

Fon: +49 7181 257 9009

Mail: info@toleranzen-beratung.de

Web: www.toleranzen-beratung.de



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About Steinbeis

Steinbeis is a global knowledge and technology transfer provider. The Steinbeis Network currently comprises over 1,000 enterprises. The Steinbeis Enterprises in this network specialise in different fields, with a service portfolio that includes research and development, consulting and expert reports, and training and professional development for all areas of technology and management. More than 6,000 experts contribute to practical transfer between academia and industry.

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