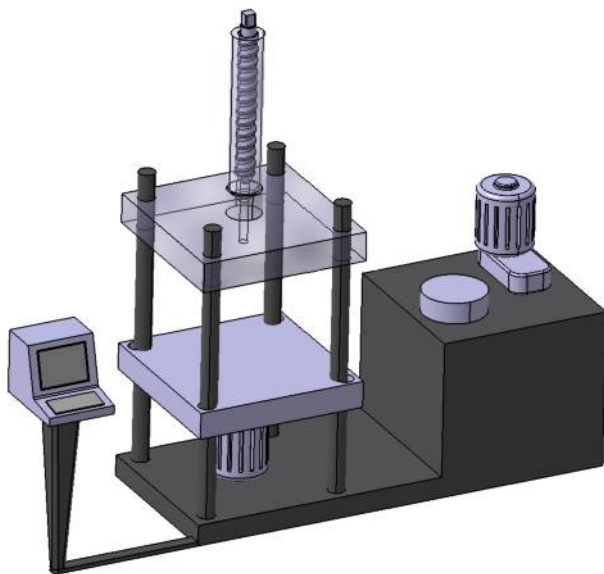


Injection Molding of Rubber: A One Day Course

"Mastering Injection Molding of Rubber"

Brief Overview: "Join us for an immersive one-day course on Injection Molding of Rubber. This comprehensive program will provide participants with an in-depth understanding of the multi-parameter process, where machine, mold, and material interact and influence each other. The seminar will explore the fascinating history of the 'Operating Window' concept, introduced at the ACS Rubber Division Meeting in 1977, and demonstrate how it can be effectively applied using 'Statistical Experimental Design' to streamline the process in just two days."

Key Topics:



1. The Intricate Relationship Between Machine, Mold, and Process
2. Review mould and runner design from the viewpoint of material rheology
3. Harnessing the Power of 'Statistical Experimental Design'
4. Unraveling the 'Operating Window' Concept in Injection Molding
5. Nine Experiments and Center Point: Achieving the Optimal Process
6. Building Your Experimental Strategy for Productivity and

Quality according state of the art quality concepts

Who Should Attend:

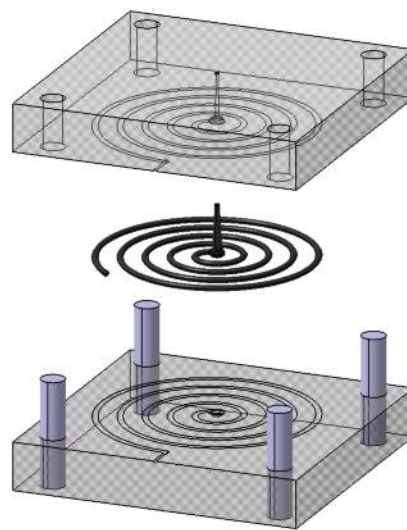
- Professionals in the Rubber Manufacturing Industry
- Engineers and Production Managers
- Quality Control Personnel

Seminar ContentDescription:

Since its introduction at the ACS Rubber Division Meeting in 1977, the concept of the 'Operating Window' has been a driving force in rubber injection molding. In this one-day seminar, our experienced instructor will guide participants through the journey of transforming theory into practical application. Learn how to optimize the injection molding process by understanding the complex interplay between machine, mold, and material. Get full control over the manufacturing process with focus on state of the art quality standards

Discover the powerful insights provided by 'Statistical Experimental Design' to efficiently navigate the experimental procedure in just two days. The course takes a hands-on approach to help you identify the critical shear stress and rheology behavior of rubber compounds that influence process performance and part quality during review of mold design from the standpoint of a material developer.

In summary, a fractional factorial design comprising nine experiments plus a center point, participants will gain the tools to fine-tune the injection molding process. Armed with this knowledge, you'll be empowered to create your own experimental strategy tailored to your environment, achieving stable manufacturing processes with heightened productivity and product consistency.



Course Instructor: Dr. Hans-Joachim Graf, H-JG Consulting