

Measuring cutting forces – increasing quality and profitability

Seminar description

Maintaining successful long-term prospects in the metal-cutting industry requires detailed knowledge of cause-effect relationships in metal-cutting and the ability to use these to increase efficiency and profitability. In this seminar, participants will learn how to measure cutting forces using sensor systems, thereby increasing quality and profitability in tool development and process design and analysis. In practical and application-based examples, they will learn how to properly install the measuring change and conduct measurements and analyses for optimal results.

Seminar content

- Introduction to piezoelectric measurement technology
- Measurement technology to determine cutting force
- Setup and parameterization of a cutting force measuring chain
- Principles of data acquisition
- Introduction to system dynamics
- Measures for improving signal quality
- Analysis and interpretation of cutting force signals
- Application of cutting force measurement in various application areas

Goal

The goal of this seminar is to present the fundamental principles of cutting force measurement to enable participants to apply these correctly in real-world scenarios. Following the training, they will be able to employ sensors and amplifiers as designed for optimal results, as well as evaluate cutting force signals.

Target group

Specialists in the area of tool and process development for machining processes as well as research and teaching

Prerequisite for participation

None

Duration

2 days

Day 1: 10:00 a.m.–6:00 p.m.

Day 2: 8:30 a.m.–3:00 p.m.

Seminar number

9966B34-2-2-1

This seminar can also be held on-site at your company upon request. Please inquire about dates and cost.

Register at:

training.de@kistler.com