



**SUMITOMO  
SEMINARS**

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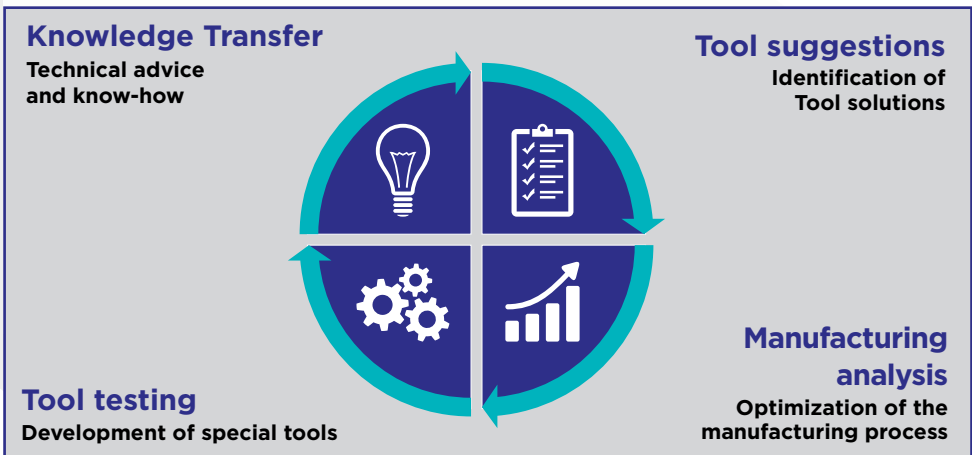
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## ■ More competence leads to higher productivity

Our goal is to ensure efficient machining processes for our customers. Qualified employees are a decisive success factor in global competition - and this is exactly where our seminars come in.

If process disturbances are detected at an early stage, tool solutions can be used and the production process can be sustainably optimized. Benefit from the exchange of experience with our globally networked cutting tool experts.





## ■ Target group

In times of a shortage of skilled workers, continuing education and further training are becoming increasingly important, because it is only with appropriate specialist knowledge that potentials can be recognised and exploited. Benefit from the knowledge transfer provided by our tool specialists.

Our seminars are aimed at all employees of the machining production, e.g. trainees, work planners, programmers, purchasers, process developers, machine operators, machine setters, application engineers and production managers. The optimum number of participants is between 10 and a maximum of 20.

## ■ Seminar structure

Our training program is primarily divided into basic seminars and indepth advanced seminars. These are supplemented by individually compiled seminars as well as professional workshops and production analyses. The seminars take place in our European Design and Engineering Center (E-DEC) in Lauchheim, in our European headquarters in Willich or on your premises.

**Turning | Drilling | Milling | Hard machining**

**E-DEC | European Headquarters | Inhouse (Customer)**

**Basic seminars**

**Individual seminars**

**Advanced seminars**

**Professional workshops | Line diagnosis**

## ■ Our aspiration

In agreement with our company spirit we offer high quality products and services. Our seminars also conform to these guidelines and we constantly develop and enhance our training department by the introduction of latest technologies.

## ■ Our seminars- practice- and user-oriented

Our systematically structured seminars contain practice-oriented application examples with direct reference to the lectures shown. Demovideos, plenum discussions and machining examples on the machine complement our training courses. Each participant receives the seminar documents to transfer what they have learned to their daily production process. We would also be happy to integrate your individual task as a training topic in our seminars.

### ● **Basic seminars**

- Fundamentals of drilling, milling and hard machining for newcomers and career changers not familiar with the job

### ● **Advanced seminars**

- Strategies and tool solutions to increase productivity
- Performance optimization through newly developed cutting materials

### ● **Professional workshops**

- Development of problem solving strategies
- Identifying and exploiting optimization potential

### ● **Individual seminars**

- Exactly tailored to your needs
- Optimization of your machining process



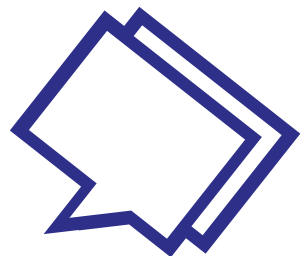
## ■ Feedback on our seminars

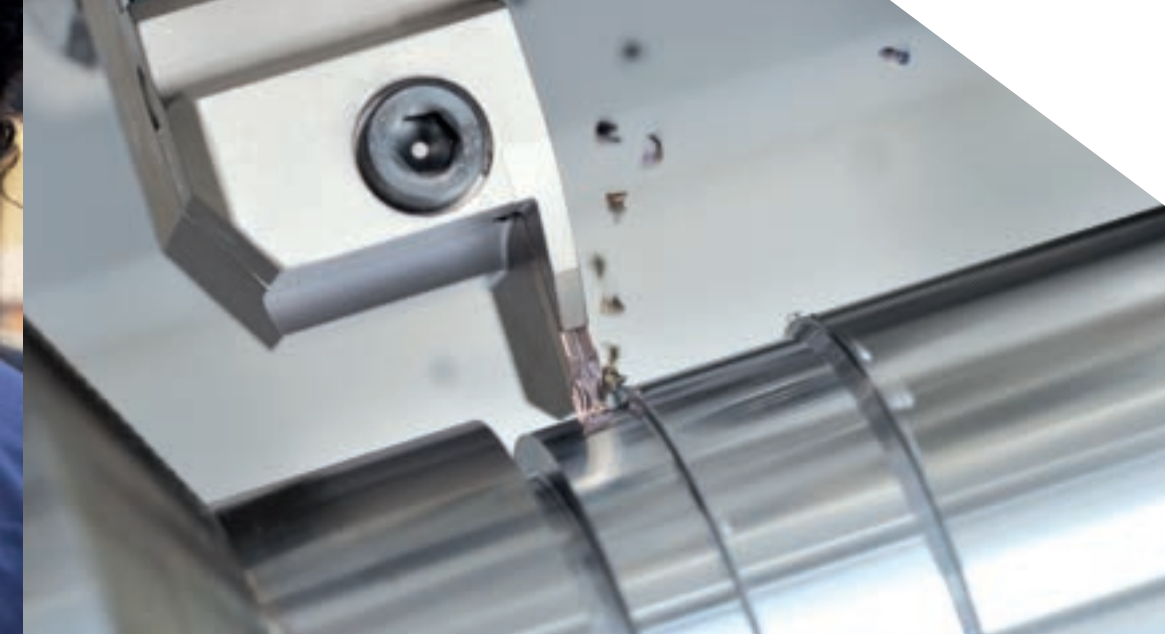
We are pleased about the extremely positive feedback of our previous seminars and want to continue the same way. We are proud of the average rating of 1.3 (in school grades from 1-6) and we are grateful for constructive criticism, because this is the only way to develop further.

*„Finally no advertising event,  
but the transfer of knowledge!”*

*„I particularly liked the combination of  
theory and practice”*

*„The practical machining examples  
were great!”*





## ■ Turning in a new dimension

### ● Turning

#### ***Basic seminar***

- Fundamentals of machining
- Current cutting materials and coatings
- Machining environment and machine requirements
- Selection of inserts according to application
- Select chip breaker geometry and determine cutting parameters

#### ***Advanced seminar***

- Recognize tooling solutions and optimize processes
- Identify and eliminate process malfunctions during turning
- Special turning processes such as grooving and threading
- Wear detection and countermeasures to improve tool life





## ■ Precision to the point

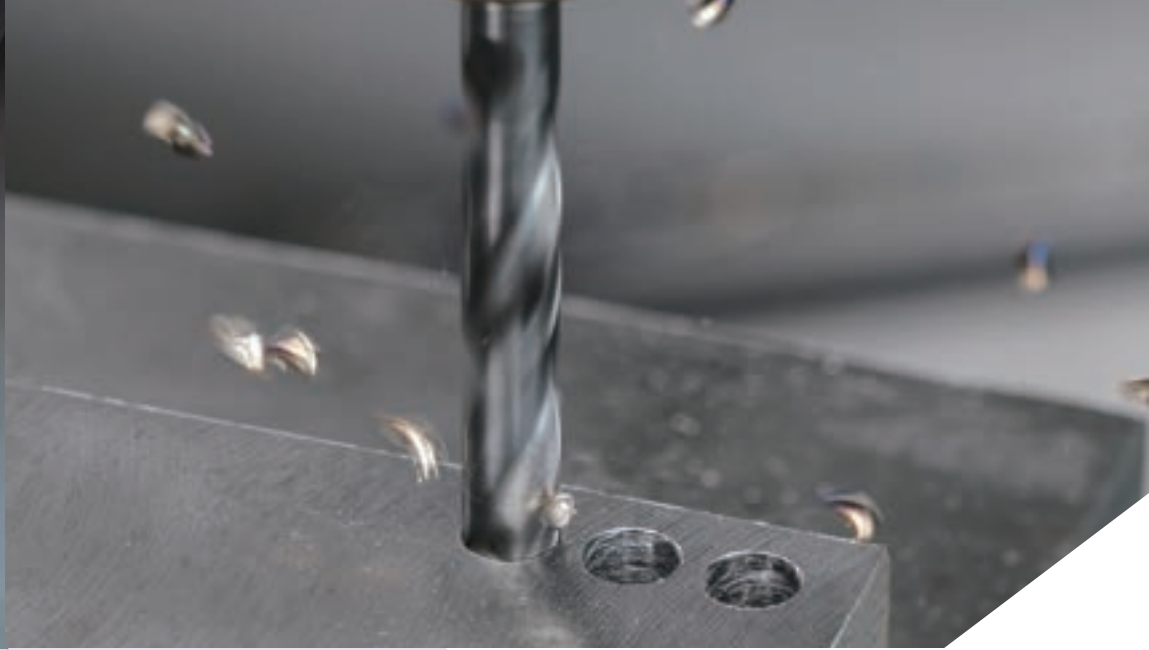
### ● Hard machining

#### ***Basic seminar***

- What is hard turning?
- Basics and advantages of hard machining
- Applications of CBN cutting materials
- Requirements for a stable hard turning process
- Selection of CBN grades and cutting edge designs

#### ***Advanced seminar***

- Hard machining process
- Composition of CBN cutting materials
- Machining accuracy during hard machining
- Special application methods for CBN such as grooving, slab,
- HFT and hard thread turning
- Further CBN applications in cast iron, powder metal, superalloys and hardened steel
- CBN Optimization Guide



## ■ A round thing

### ● Holemaking

#### ***Basic seminar***

- Fundamentals of machining
- Basics and problems in holemaking
- Machining environment and machine requirements
- Drill selection according to application
- Cutting parameters, tool life and wear detection

#### ***Advanced seminar***

- Strategies to increase productivity
- Identifying and solving process faults during holemaking
- Drilling by milling
- Deep hole drilling process
- Creation of fitting bores with high-feed reamer
- Customer-specific solutions with special, step and combination tools



## ■ The combination is what counts

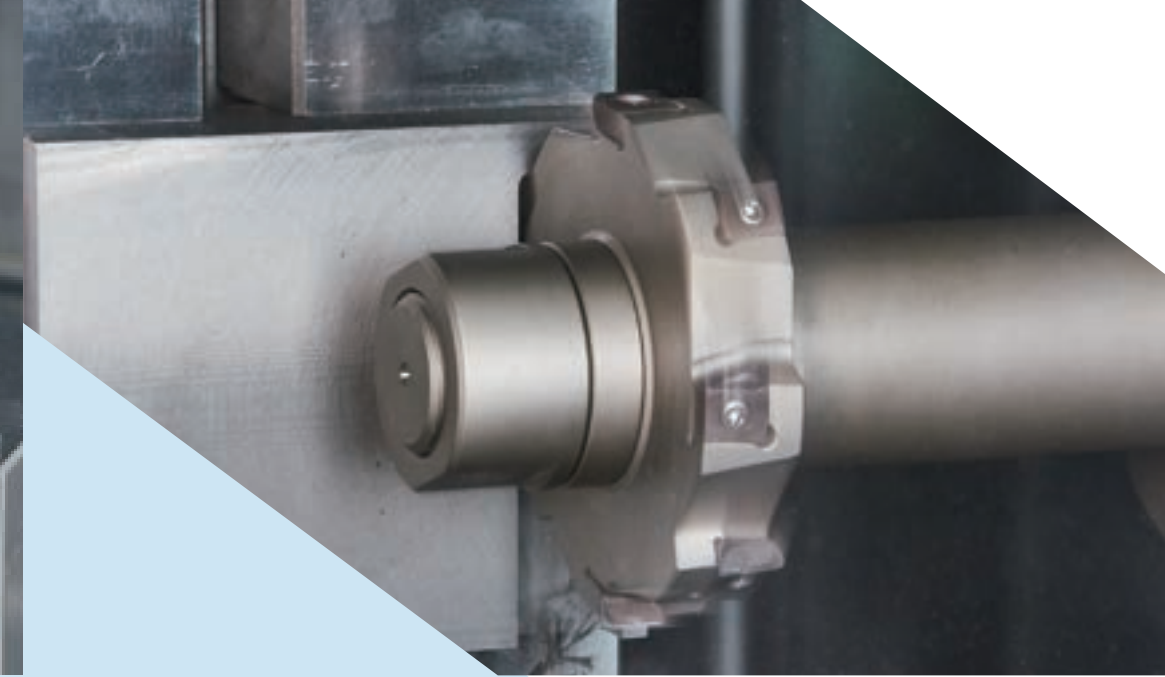
### ● Milling

#### ***Basic seminar***

- Fundamentals of machining
- Basics of milling
- Selection criteria for milling tools, cutting materials and coatings
- Use of coolant lubricants

#### ***Advanced seminar***

- Central chip thickness as a success factor
- Develop and optimize milling strategies
- Identify types of wear and initiate countermeasures
- Optimization of production times and process stability (high feed milling)



## ■ New perspectives for your milling applications

### ● Milling

#### ***Professional workshop***

- In-depth knowledge and expertise for the advanced seminar
- Identify milling problems and develop solutions
- Performance-optimizing milling strategies
- Primarily practical milling tasks directly at the machine
- Process optimization methods to increase efficiency
- Considerations of economic viability

#### **Please note**

Attendance of the advanced milling seminar is required to participate in the professional workshop.



## ■ Individual seminars - designed exactly for your production

Within our individual training courses, both the seminar contents and the time schedule are tailored exactly to your cutting tasks and your operational requirements. Technical and special topics can be compiled individually and adapted to your needs. On request, we carry out production analyses and develop tool solutions to optimize your cutting process.

Simply compose your individual seminar from the listed seminar topics and add your company's specific needs. For our individual seminars we recommend a maximum of 10 to 20 participants in order to create an optimal training atmosphere. Let us find a solution for your task together.



## ■ Seminar schedule

We arrange individual seminar dates for our English-speaking participants. Please contact us for further information.  
Due to the often longer journey in connection with an optimal absorption ability of the participants, a seminar is usually divided into two days.

Start Day 1 | 01:00 p.m.  
End Day 2 | 12:30 p.m.

### Dates 2023

Basic Seminar Milling

March 07.|08. 2023  
November 07.|08. 2023

Advanced Seminar Milling

March 28.|29. 2023  
December 05.|06. 2023

Basic Seminar Hard Machining

March 14.|15. 2023  
November 14.|15. 2023

Basic Seminar Drilling

March 21.|22. 2023  
November 21.|22. 2023

Basic Seminar Turning

November 28.|29. 2023

### ● Registration

T +49 2154 4992 715

[seminar@sumitomotool.com](mailto:seminar@sumitomotool.com)

**[Click here to register](https://sumitomotool.com/en/service/seminar-registration)**

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tion](https://sumitomotool.com/en/service/seminar-registration)

### Venues

Sumitomo Electric Hartmetall GmbH  
European Design & Engineering  
Center  
Industriestraße 2  
73466 Lauchheim

Sumitomo Electric Hartmetall GmbH  
Konrad-Zuse-Str. 9  
47877 Willich

Or on your premises!



## ■ Organisation

### **Costs including one overnight stay**

1 participant:	150,- € / seminar and person plus 19% VAT
from 2 participants:	120,- € / seminar and person plus 19% VAT

We will make the reservation for you in a nearby partner hotel.

### **Included services**

In addition to the hotel costs, the participation fee includes the seminar documents, snacks, drinks and the participation certificate.

### **Cancellation**

Cancellation must always be made in writing and is free of charge up to 14 days before the start of the seminar. After that we charge an administrative fee of 50% and from 3 days before the start of the seminar 75%.

After consultation with us, a substitute person can attend the booked seminar in your place. This will not incur any further costs for you.

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SUMITOMO ELECTRIC Hartmetall GmbH  
Konrad-Zuse-Straße 9, 47877 Willich / Germany



T +49 2154 4992-0 F +49 2154 4992-161 [info@sumitomotool.com](mailto:info@sumitomotool.com) [www.sumitomotool.com](http://www.sumitomotool.com)