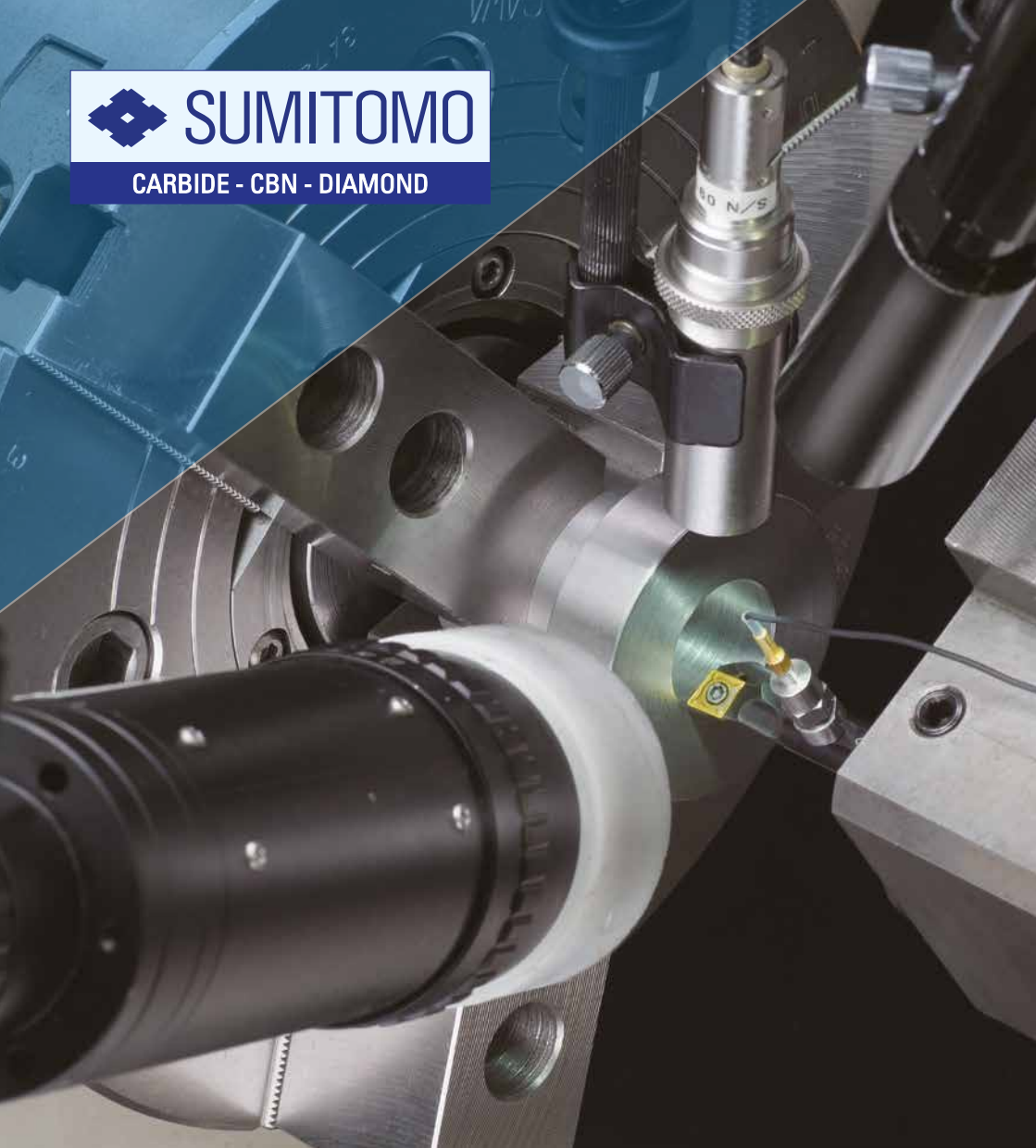




SUMITOMO

CARBIDE - CBN - DIAMOND



SUMITOMO SEMINARS

Training Program 2020

SUMITOMO
ELECTRIC
GROUP

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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.





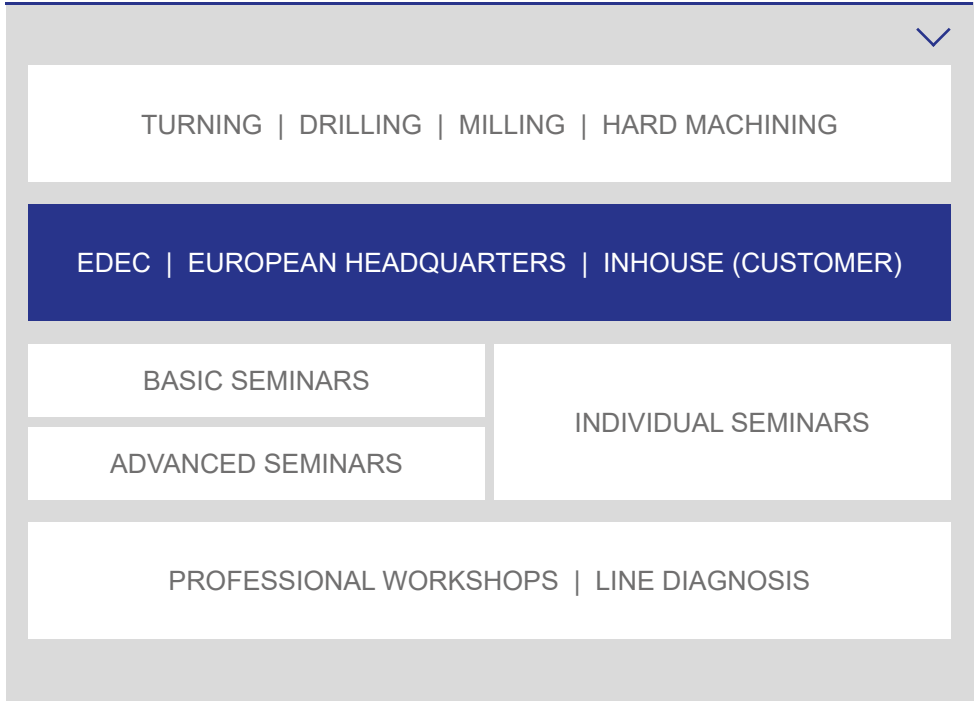
TARGET GROUP

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 in-depth 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 (EDEC) in Lauchheim, in our European headquarters in Willich or on your premises.



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 - PRACTICAL AND USER-ORIENTED

Our systematically structured seminars contain practice-oriented application examples with direct reference to the lectures shown. Demo videos, 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 turning, 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



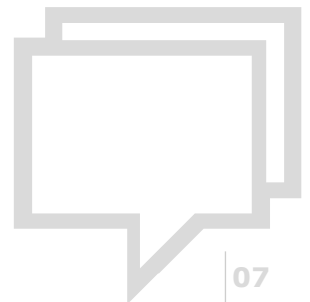
FEEDBACK ON OUR SEMINARS

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

- Identifying tool solutions and optimizing processes
- Identifying and solving process faults 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, super-alloys 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

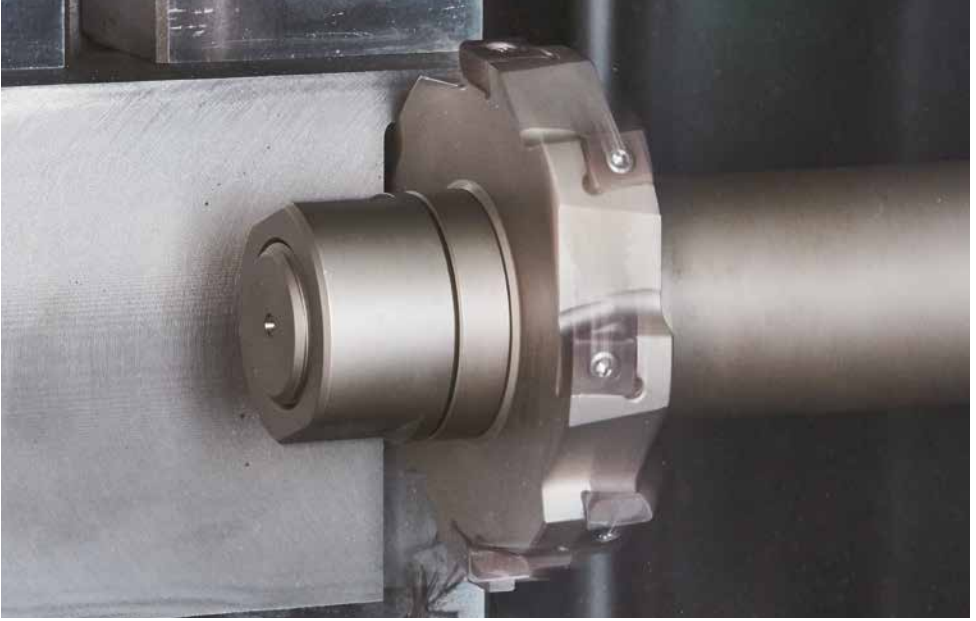
MILLING ∨

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 supplement them with your company-specific needs. For our individual seminars we also recommend a maximum of 10 to 20 participants in order to create an optimal training atmosphere. Let us find a solution for your problem together.



SEMINAR SCHEDULE

We arrange individual seminar dates for our English-speaking participants. Please contact Mrs. Schnelting 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 | 1:00 p.m.

End Day 2 | 12:30 p.m.

SELECTABLE SEMINARS AT A GLANCE

Turning Seminars

Basic | Advanced

Hard Machining Seminars

Basic | Advanced

Drilling Seminars

Basic | Advanced

Milling Seminars

Basic | Advanced | Professional

REGISTRATION AND FURTHER INFORMATION

 +49 2154 4992 715

 Seminar@SumitomoTool.com

VENUES

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

Or on your premises!

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



ORGANISATION

COSTS INCLUDING ONE OVERNIGHT STAY

1 participant: 150,- € / seminar and person plus 19,0 % VAT
from 2 participants: 120,- € / seminar and person plus 19,0 % VAT

We take over 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

Only cancellation in writing will be accepted. Free of charge cancellations are possible up to 14 days before the scheduled seminar. Afterwards you have to pay half of the costs and from 3 days before the seminar you have to pay 75% of the costs. By arrangement you might name a representative who takes part in exchange. There won't be any additional costs.

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