

APPLICATION SEMINAR

*Analysis and Optimization of
Wet Grinding Processes – from
Laboratory to Production Scale*



Course Information

Duration of the course: 2 or 3 days

Number of participants: max. 12 Personen

Venue:
NETZSCH-Feinmahltechnik GmbH
in 95100 Selb, Germany

Course fee includes

- 3 nights lodging with breakfast
- Catering during the event
- Lunch / Dinner
- Seminar documents

Seminar fee

Including hotel costs: €1,900 plus VAT

Our special service for you

We also offer in-house user or service seminars according to your specifications. If you are interested, please do not hesitate to contact us.

Seminar Dates

German-language Application Seminar

26.01.-28.01.2027

09.11.-11.11.2027

English-language Application Seminar

16.03.-18.03.2027

30.11.-02.12.2027

Seminar Registration

To register, please use the registration form on our website at grinding.netzsch.com or scan the following QR code:



Organization

Mrs. Sindy Tannert-Koch will be happy to advise you on all questions relating to organization.

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APPLICATION SEMINAR

Analysis and Optimization of Wet Grinding Processes – from Laboratory to Production Scale

The goal of the seminar is to convey the theoretical background and the function of agitator bead mills, as well as to discuss the influence of key operating parameters on the grinding process. In addition, various processing methods will be presented. The explained correlations will then be illustrated through practical experiments on the LabStar laboratory mill.

In the practical part, participants will apply what they have learned directly on our machines. Working in small groups, they will tackle different tasks and grind or disperse real test materials. Our speakers and operators will provide guidance and support, while participants actively engage and gain hands-on experience.

Target group

Those with positions of responsibility in the areas of:

- Production
- Process technology
- Laboratory
- Research & Development

We would like to invite you to a Welcome Dinner at 7:00 pm on the evening before the seminar begins. On the first day of the seminar, we will pick you up from the hotel at 8:00 am. The seminar will start at 8:30 am at NETZSCH-Feinmahltechnik GmbH. We will provide all of the seminar materials along with detailed information regarding the program. We look forward to winding down the first day of the seminar with you with some good food and a relaxed atmosphere. Of course, snacks and lunch will be provided during the seminar.

SEMINAR CONTENT

- Introduction to the NETZSCH Business Unit Grinding & Dispersing
- Characterization of Successful Comminution – Terms and Definition
- Overview of Grinding-media-free Dispersion Systems – Mixing, Wetting and Dispersion
- Overview of NETZSCH Grinding Systems and Agitator Bead Mills
- Effect of various Process Parameters
 - Model of the Stress Energy and the Stress Rate
 - Effect of the Dwell Time Distribution
 - Selection of the Grinding System and the mode of operation
- Rheology
- Grinding Media Selection and Scale-Up
 - Calculation – from Laboratory to Production Scale
- Tour of Assembly area
- Summary and Discussion

Optional (can be arranged after consultation):

- Limits of Wet Grinding, True Comminution and Gentle Dispersion

Implementation of laboratory tests – planning, performance, analysis, documentation:

- Execution of a complete laboratory test, including setup and preparation of the test facility
 - Changing of the barrier fluid and measurement of the no-load curve
 - Filling of the machine with grinding media
 - Recording of a pump curve
- Recording of important characteristic curves
- Sampling and sample preparation for analysis of the test results
 - Processing of the sample material, including sampling and sample preparation
 - Characterization of the starting material
 - Troubleshooting basics
 - Handling *IRIS* V3 system control
- Documentation and discussion of the results