



## Course information

Duration of the course: 2 days  
Attendance: approx. 10

### Course charge includes:

- 2 overnight stays
- Lunch / Dinner
- Seminar documents

### Seminar fee

including hotel costs EUR 1,000.00 + VAT

### Organization

Mrs. Gangl will advise you in all questions.

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### Our special service for you

We also offer inhouse seminars according to your specifications. If you are interested, please do not hesitate to contact us.

## Seminar Dates 2022

### NETZSCH Fine Powder Processing

in German  
23. - 24.03.2022

in English  
19. - 20.10.2022

The easiest way to register is via our website:

[www.netzsch.com/fpp](http://www.netzsch.com/fpp)



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# Seminar

## Fine Powder Processing

Date: 19.-20.10.2022

# Seminar

## NETZSCH Fine Powder Processing – Energy Efficiency and Process Optimization



### Contents

The aim of this seminar is to provide participants with information concerning the theoretical background in the areas of dry-grinding and air classifying as well as the measuring, presentation and interpretation of results. At the same time, the influence of material properties and operating parameters will be discussed. After this, there will be a presentation of the various processes with a particular focus on energy efficiency and optimization. During this, we will also touch on the subject of scaling up from laboratory- to production scale. The influencing factors mentioned will be demonstrated using practical tests.

### Target Group

Engineers and employees with a scientific background from the following areas:

- Production
- Process technology
- Laboratory
- Research & Development

### Program 1<sup>st</sup> Day

- 08.00 Pick up from hotel
- 08.30 Welcome
  - Distribution of seminar documents
  - Presentation of the NETZSCH Group
- 09.00 Basic principles of classifying
  - Model and determining factors
  - Material characteristics and degree of influence
- 09.30 Basic principles of size-reduction technology
  - Material characteristics and determining factors
- 10.00 Break
- 10.15 Grinding and classifying machines
  - Overview and classification
- 11.00 Particle separation using filters and cyclones
- 11.45 Factory tour
- 12.15 Lunch
- 13.30 Measuring, presentation and interpretation of results
  - Basic principles of particle measuring technology – laser diffraction (a contribution by Malvern Panalytical GmbH)
  - Particle measuring technology in practice: Preparation of samples, sources of errors, presentation and interpretation of results
- 14.45 Practical part
  - Grinding and classifying in practice using jet mills and high-performance air classifiers
- 16.00 Break
- 16.15 Measuring, presentation and interpretation of results
  - Electron microscope
- 17.00 Return to hotel / Evening program

### Program 2<sup>nd</sup> Day

- 08.00 Pick up from hotel
- 08.30 Basic principles of size-reduction technology
  - Rotor impact mills
  - Jet milling
- 10.00 Break
- 10.15 Fine-grinding with steam
  - Generation and uses of steam in the jet mill
  - Test results
  - Comparison of steam and air in jet milling

Process variants

  - Stabilization of very fine products
  - Grinding-drying with steam

Process optimization using the example of ceramic inkjet printing inks

  - Synergy wet - dry
- 11.15 Scale-up of jet mills and classifiers
- 11.45 Practical part
  - Ultra-fine grinding in practice using the steam jet mill *S-JET*<sup>®</sup>
- 12.15 Lunch
- 13.30 NETZSCH-CONNECT
- 14.00 Highest fineness with
  - Fine cutting mill *SECOMY*<sup>®</sup>
  - Fine cutting mill with integrated classifier *SECOMY*<sup>®</sup> S
- 14.45 New technologies and future prospects
- 15.30 End of the seminar

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