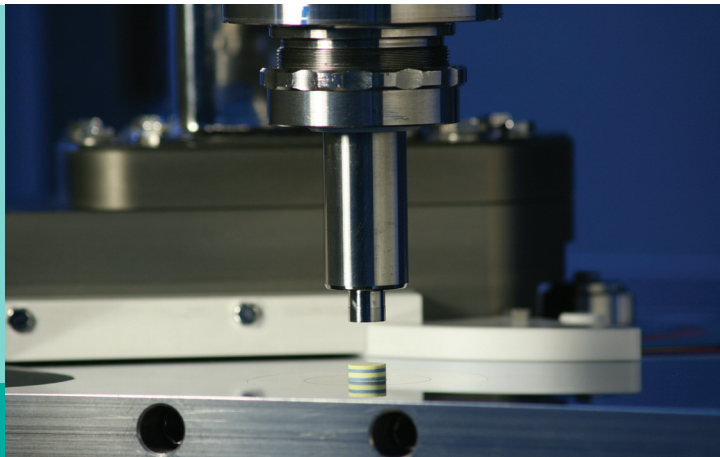
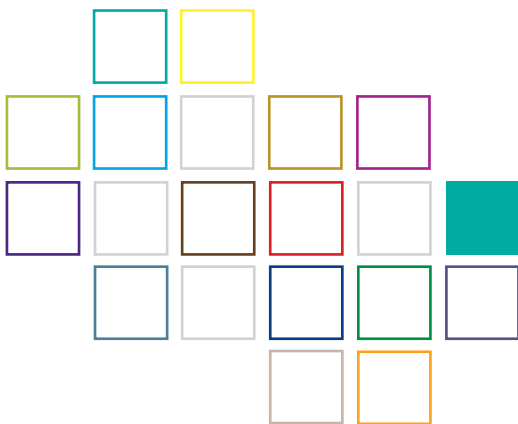


APV TabletXpert Multi-Layer Tableting



26 - 27 November 2025
Berlin, Deutschland

Course no. 7059



Pharmaceutical Manufacturing

Target group

This course addresses everyone who has basic knowledge in theory or practice of simple tableting. This includes people in development, production and quality control, who now face the challenge of more complex tableted dosage forms such as multi-layer tablets. The course is suitable for both academics, career starters after graduation or doctorate, and experienced laboratory or production employees as well as experts who are new to this subject area and want to achieve a more detailed understanding of processes, formulations and their interactions and to gain an up-to-date overview of multi-layer tableting.

In cooperation with

KORSCH
The Specialist.

APV
MAKING SCIENCE WORK

This seminar is organised by the APV focus group on solid dosage forms.

Objectives

Tablets are the most frequently used dosage form because of their ease of manufacturing and appealing properties to the patients. With increasing complexity of dissolution profiles or multiple drugs in one dosage form, more complex types of tablets become necessary. One of such complex types of tablets are multi-layer tablets, which consist of multiple different formulations, that are compacted to one dosage form in layers. Additional challenges to those faced already in the manufacturing of simple tablets are the clean production of well-separated layers and their adhesion at the interface between the layers in multi-layer tablets. Accordingly, specialised tablet presses, deeper formulation and process knowledge are necessary in the development of multi-layer tablets.

The course provides the theoretical foundation as well as practical experience of the multi-layer tableting process. It includes knowledge on formulation aspects, specific machine configurations and parametrisations, and specifically their interplay in forming intact products. It covers the basic formulation characterisation with specific focus on multi-layer compatibility, multi-layer tablet control methods, formulation and process development at small scale (compaction simulator), scale transfer to production presses and trouble shooting in industrial scale processes.

At the end of the course, the participants will have acquired fundamental knowledge on the development and will be able to independently recognize and evaluate the criteria relevant to multi-layer tablet production.

This seminar is limited to 30 participants!

Course leader



Dr. Jan Henrik Finke
TU Braunschweig

Dr. Jan Henrik Finke, Pharmacist, received his doctor's degree in pharmaceutical technology (microfluidic production of colloidal drug delivery systems) from the TU Braunschweig, Germany, in 2014.

Since 2013 he is heading the working group for Pharmaceutical Process Engineering at the Institute for Particle Technology, which later developed into the Division of Pharma and Bioparticle Technology. Since 2020, Jan is also a Senior Scientist at the Fraunhofer Institute for Surface Engineering and Thin Films IST, where he investigates and engineers the interfaces between drugs, dosage forms, their environment, and process equipment such as tableting tools. In 2021-2022 he additionally held the position of a Substitute Interim Professor for Pharmaceutical Technology at the FSU in Jena, Germany. His research generally focusses on solid dosage form development and manufacturing processes, also taking new excipients and the production of (drug/delivery system) nanoparticles and downstreaming these and living microorganisms from suspensions to dry formulations into account. All efforts are focusing on developing models to describe relations between material, process, structure, and properties of dosage forms. These are designed towards transferability and scalability.

Jan is a speaker on international conferences, author of journal articles and scientific book chapters. He continuously supervises bachelor, master, and doctoral theses, especially in pharmaceutical engineering topics.



APV TabletXpert Multi-Layer Tableting

Programme

Wednesday, 26 November 2025, 11:30 - 18:00 h

Arrival, registration and luncheon

Welcome, agenda and house-keeping

Dr. Jan Henrik Finke, TU Braunschweig

Dr. Friederike Gütter, Korsch AG

Setting the scene

- Motivation
- Applications
- Basics

Dr. Jan Henrik Finke, TU Braunschweig

Multilayer tablet presses in research and production

- Machine design and special features
- Process design and parametrisation
- Quality control and regulation

Dr. Friederike Gütter, Korsch AG

Inside the multi-layer tablet

- Formulation and material aspects
- Measurement methods
- Influence of geometry

Dr. Jan Henrik Finke, TU Braunschweig

Practical course 1

Formulation characterisation at smallest scale

- Material characterization
- Formulation development
- Trouble shooting

Practical course 2

Scaling/transfer from the lab to production

- Process development on a compaction simulator
- Transfer to an industrial rotary press
- Implementation of quality control

Wrap-up and end of day one

Networking dinner

Thursday, 27 November 2025, 08:30 - 13:45 Uhr

Producing multi-layer tablets at full industrial scale

- Trouble shooting
- Process parameter adjustment
- Machine component adjustments

Dr. Moritz Rosch, Korsch AG

Practical course 3

Pitfalls in industrial multi-layer tablet production

- Process parameter effects
- Control strategies for CQAs
- Trouble shooting

Insights into industrial multi-layer development and production

- Industrial multi-layer case studies
- Importance of formulation compatibility
- In vitro performance of multi-layer tablets

Filip Svetoslavov, F&L Pharmascience

Industrial case studies

TBD

Measuring complex tablets' performance

- Mechanical testing
- Dissolution testing
- Implications for development and production

Tobias Tielke, Sotax

Influence of excipient properties in multi-layer tableting

- Particle size
- Mechanical implications
- Dissolution performance

Dominika Czernik-Schulz, SE Tylose

Discussion and wrap-up

- Review of results from the lab courses
- Connection to theoretical learnings
- Implications for formulation, machine and process development and in production

Dr. Jan Henrik Finke, Dr. Friederike Gütter, Dr. Moritz Rosch, Dominika Czernik-Schulz and Filip Svetoslavov

Seminaranmeldung online on apv-mainz.de/en or via E-Mail info@apv-mainz.de



Veranstaltungsort

KORSCH AG
Breitenbachstr. 1
13509 Berlin
Germany

Registration fee

Early bird fee until 12 October 2025
Industry 1490 EUR
Authority/University 745 EUR
Students* 200 EUR

Regular fee from 13 October 2025
Industry 1690 EUR
Authority/University 845 EUR
Students* 250 EUR

Registration

APV-Geschäftsstelle
Kurfürstenstraße 59
55118 Mainz/Germany
Phone: 0049 6131 97 69 0
E-mail: apv@apv-mainz.de
Web: www.apv-mainz.de

You will receive a confirmation of your registration with the invoice.

Hotelreservation

Hotel am Borsigturm
Am Borsigturm 1
13507 Berlin
Phone: 0049 30 430 360 00
E-mail: info@hab.berlin

We have blocked a contingent on the special rate of **129.66 € incl. breakfast and VAT. Reservation code: APV-Seminar.** The rate is available until 25 October 2025.

Date

Course no.: 7059
from 26 November 2025 11:30 h
to 27 November 2025 13:45 h

(free of VAT according to § 4,22 UStG)
Coffee breaks, luncheon, dinner and electronic proceedings included.

* Limited places for full time students available; written evidence must be submitted.

APV TabletXpert Multi-Layer Tableting , 26 - 27 November 2025, Berlin, Course no.: 7059

Registration

As soon as you have found a seminar of your interest, it is very easy to register for it via e-mail or online. We will process your registration promptly and certainly are available for any questions that may arise.

Registration confirmation

After your registration was successfully processed, you will receive a confirmation.

Before the event

A few days before the event starts, you will receive important information about the seminar, such as time, date, addresses etc.

After the event

You will receive a certificate confirming your participation. Furthermore, we would like to ask you to fill-in our evaluation sheet to make sure we get better every time.

Follow-up

After the event, we are open to receive any suggestions and critique that might arise during the seminar and will certainly help you with further questions you may have.

Declaration of consent in respect of data protection

☐

By registering for this seminar, I agree that the APV uses my data for the purpose of processing the order and provides me with all relevant information.

☐

I also agree that APV may contact me for the purpose of exchanging similar information by email or post.

Your data will not be shared with third parties. You have a right of withdrawal at any time without giving reasons.

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