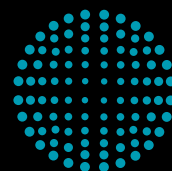


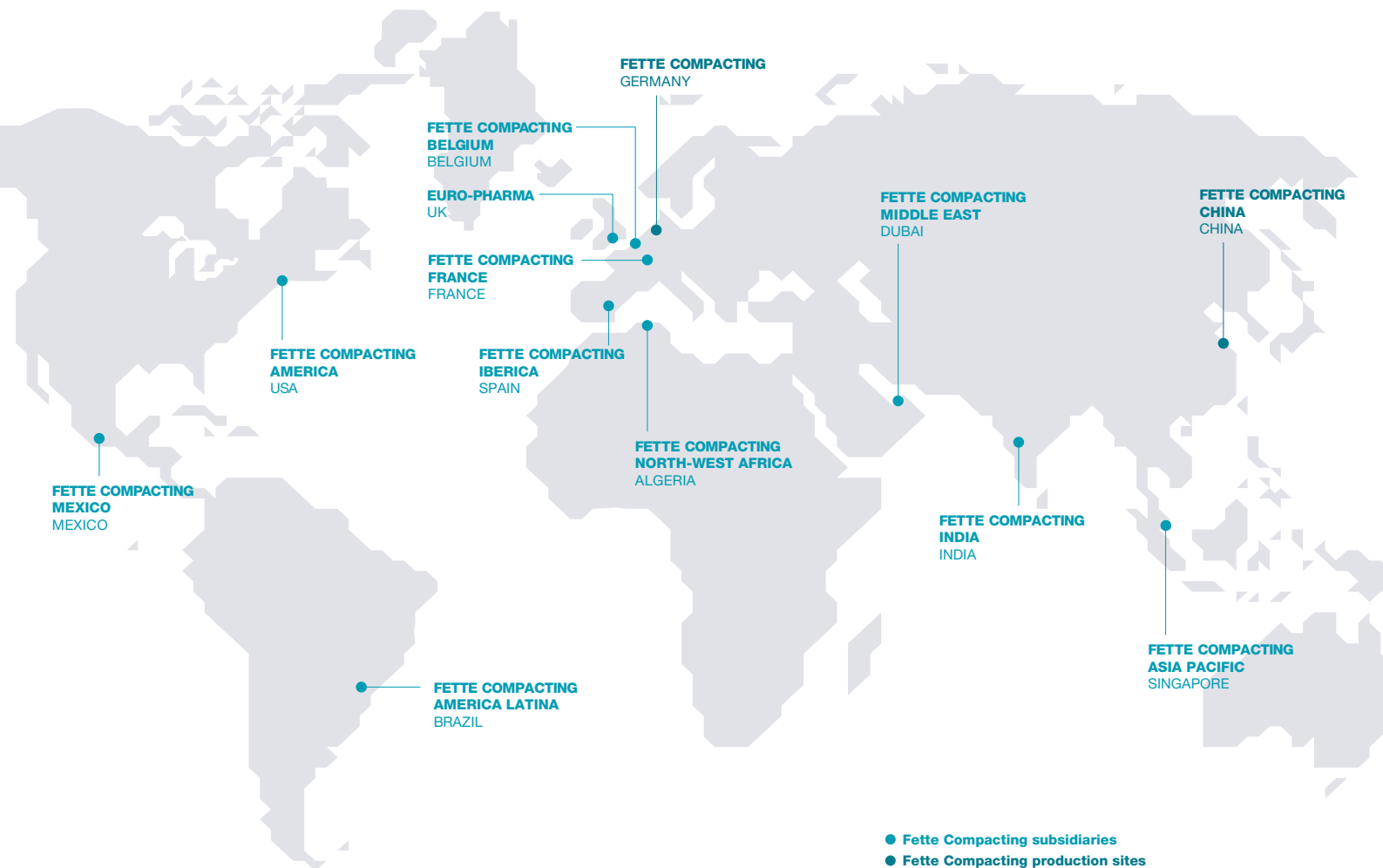


Global Training Program



FETTE
COMPACTING

Global Training Offer



Fette Compacting conducts training at your sites as well as on training machines in the Competence Centers in Germany, Brazil, China, India and the USA.

Fette Compacting offers training in the following languages:

- + English
- + German
- + Spanish
- + Portuguese
- + French
- + Mandarin

Contact:

Training
Fette Compacting GmbH
tabl-training@fette-compacting.com
Phone +49 4151 12 174

“The performance of a machine is just as effective as the performance of the people who are operating it.”

Fette Compacting - Team Training

The tablet presses offered by Fette Compacting work with more than 300 parameters in order to adapt the machines to individual manufacturing processes. On the one hand, this offers the opportunity to control and influence specific pressing processes. On the other hand, it requires constant updating of the technical knowledge and practical skills availed by employees.

Thanks to our modular range of training offers, employees in production, technology, maintenance, development and even in cross-sectoral departments can be trained in specific areas of production relevance. Individually compiled training sessions are also available.

We attach particular value to the provision of integrated knowledge of both theoretical and practical applications. Our trainers would be delighted to come to you and train your team right at their everyday equipment. However we recommend conducting the training sessions in the Fette Compacting Competence Centers, which offer the advantage of enabling your employees to concentrate on the training content away from work routines, while different machine types are available for practical training. A guided tour of machine production and assembly serves to further intensify their understanding of the tablet press.

How you benefit: Trained employees increase machine availability, output and product quality while reducing material losses. They are faster at finding and fixing errors, reducing changeover times, detecting wear and reducing downtimes.

All training courses are concluded with success monitoring. After completion, a certificate is issued in accordance with 21 CFR.

Staff training is increasingly shifting into focus to benefit from the latest technology and achieve maximum:

- Uptime
- Output
- Product quality
- Yield

Case Studies – Increase Results Through Staff Training

TABLETING PERFORMANCE

Minimize product loss

Savings: € 42,550 p.a.

2 days of training

- + Analysis of team skills/
gaps in production/
process troubleshooting
- + Train the team
- + Increase in yield from 93.5% to
96% = 2,300 kg p.a., 250 batches,
€ 18.50 cost per kg

**+ Product cost € 18.50/kg for
2,300 kg p.a.**

MAINTENANCE

Optimize maintenance and servicing, train the team

Savings: € 20,000 p.a.

5 days of consulting & training

- + Analysis of existing preventive
maintenance process
- + Development of preventive
maintenance schedule
- + Train the team
- + Reduction of unplanned downtime
by 200 hours per year

**+ 200 h p.a. free machine capacity
+ 1 machine hour = € 100 p.a.**



MODULES ▶ FUNCTION ▼	STANDARD TRAINING	STANDARD TRAINING	ADVANCED TRAINING	SPECIAL TRAINING
PRODUCTION	+ Introduction	+ Operations + Cleaning and Changeover	+ Tableting Performance	+ Bi-Layer Compression + Tableting Tools + In-Process Control + Turret Changeover + FE CPS
R&D			+ Galenic	+ ePAT
MAINTENANCE MECHANICS		+ Maintenance Mechanics		+ Turret Changeover + WiP
MAINTENANCE ELECTRONICS		+ Maintenance Electronics + Removal Arm		+ Turret Changeover + WiP

Additionally, Fette Compacting offers **customized training** with content prepared individually.

Evaluation Process

Individual testing and definition of training required

Evaluation of individual staff knowledge.

- Fette Compacting proposes standard or customized training.

Training & Certification

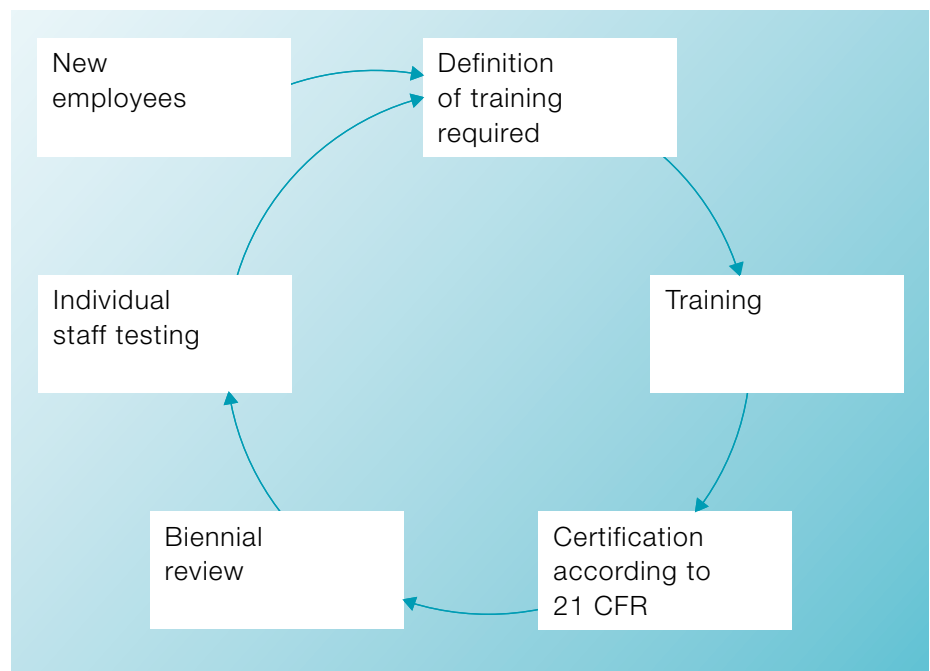
Each training ends with a test. (If unsuccessful, the gaps will be retrained and the test will be taken again.)

- If successful, the participant receives a certificate for the training topic according to 21 CFR.

Biennial review

Fette Compacting provides a re-test and re-evaluates the individual knowledge of staff.

- The training circle starts again with the definition of necessary training.



Standard Training Modules Tablet Presses



INTRODUCTION

1 Day

Audience:

Operators, Maintenance Staff, Machine Setters, Developers, Quality Managers, Technologists, Project Managers, IT Administrators, Supervisors

After this training course, you will master the specialist terms and functional operation associated with a tablet press. You will be familiar with all of the machine's safety features and will have manufactured your first tablet.

- + Machine & System Overview
- + Work Safety Instructions
- + Functional Principles
- + Production Parameters
- + Practical Exercises



OPERATIONS

2 Days

Audience:

Operators, Machine Setters, Quality Managers, Technologists

After this training course, you will be capable of safely handling the tablet press and the tasks associated with it. You will manufacture tablets to specifications and independently perform minor optimizations in production. Furthermore, you will detect at an early stage any possible signs of wear and take action to prevent it.

- + General Settings
- + Production Parameters
- + Formulation Setup
- + Production Setup
- + Compression Force Control
- + Sorting System
- + Wear Parts
- + Initial Troubleshooting Skills
- + Practical Exercises



MAINTENANCE MECHANICS

2 Days

Audience:

Maintenance Staff (Mechanical)

After this training course, you will be capable of safely handling the tablet press and the tasks associated with it. You will systematically remedy errors and carry out professional maintenance.

- + General Settings
- + Wear Parts
- + Reference Marks
- + Zero Balance
- + Lubrication System
- + Sorting System
- + Rotor Clamping System
- + Practical Exercises

Standard Training Modules Tablet Presses



MAINTENANCE ELECTRONICS

2 Days

Audience:
Maintenance Staff (Electronic)

After this training course, you will be capable of safely handling the tablet press and the tasks associated with it. You will systematically remedy errors and carry out professional maintenance.

- + System & Component Overview
- + Network & CAN-Bus
- + Safety PLC
- + Reference Marks
- + Zero Balance
- + Lubrication System
- + Drives
- + Fault Finding
- + Battery Exchange (only i-Generation)
- + Practical Exercises



REMOVAL ARM

0.5 Days

Audience:
Maintenance Staff

After this training course, you will be capable of safely handling the removal arm. You will be able to adjust electronic boundaries and traverse paths. This will enable you to reduce conversion times and improve machine flexibility.

- + Position & Functional Principles
- + "Teaching" of the Removal Position
- + Practical Exercises



CLEANING AND CHANGEOVER

2 Days

Audience:
Maintenance Staff, Operator

After this training course you can set up the tablet press and safely clean all the components. You will master the safe handling of machine parts and tableting tools.

- + System overview
- + Preparation of Cleaning
- + Storage and Transportation of Machine Parts
- + Cleaning of the tablet press
- + Handling, Cleaning and Preservation of Tableting Tools
- + Setup of the tablet press



BI-LAYER COMPRESSION

1 Day

Audience:

Experienced Operators, Developers, Quality Managers, Technologists

After this training course, you will be capable of safely handling the tablet press and the tasks associated with it. You will manufacture 2-layer tablets to specifications and independently perform minor optimizations in production.

- + Functional Principle of Bi-Layer Tablets
- + Mechanical Modifications of the tablet press
- + Relevant Parameters of Bi-Layer tablets
- + Bi-Layer Product Setup
- + Practical Exercises



TABLETING TOOLS

1 Day

Audience:

Operators, Machine Setters, Quality Managers, Technologists

After this training course, you will be familiar with the various manufacturing standards for tools. You will know how tools are cleaned, maintained and stored. This will enable you to reduce down-times and improve machine availability.

- + Manufacturing Standards
- + Coatings
- + Dies & Segment Technology
- + Handling, Cleaning, Polishing & Inspection
- + Defect Analysis
- + Practical Exercises



IN-PROCESS CONTROL

1 Day

Audience:

Operators, Maintenance Staff, Developers, Quality Managers, Technologists

After this training course, you will be capable of correctly setting the in-process parameters and evaluating the respective protocols. You will be able to clean, maintain and operate the tablet tester. Furthermore, you will master operation of the control loops for tablet weight and breaking strength.

- + Mechanical Construction
- + Operation
- + Process-Relevant Parameters
- + Tablet Weight & Hardness control
- + Practical Exercises

Special Training Modules



TURRET CHANGEOVER

0.5 Days

Audience:

Operators, Maintenance Staff, Machine Setters, Technologists

After this training course, you will be capable of safely and quickly changing the turret. This will enable you to reduce conversion times and improve machine flexibility.

- + Installation & Removal of a Turret
- + Practical Exercises



WiP AND AIRMANAGEMENT

2 Days

Audience:

Operator, Technologists

After this training, you will be familiar with the components of the system and will be able to operate them safely. You can prepare the tablet press and process equipment for a washing cycle and perform them.

- + System overview Equipment
- + Install/Removal of Tableting Tools
- + Ports
- + WiP-Gun
- + WiP-Center
- + Dryer
- + Wash Program
- + WiP-Functions
- + Airmanagement



MAINTENANCE MECHANICS WiP

3 Days

Audience:

Maintenance Staff (Mechanic)

After this training course, you will be familiar of safety handling of the machine and the tasks associated with it. You will systematically remedy errors and carry out professional maintenance.

- + Standard adjustments and wear parts
- + Tablet scraper/Sorting
- + Adjustment of Reference Marks
- + Lubrication System
- + Main Drive
- + Rotor clamping system
- + Adjustment drive

Advanced Training Modules



MAINTENANCE ELECTRONICS WiP

3 Days

Audience:
Maintenance Staff (Electronic)

After this training course, you will be familiar of safety handling of the tablet press and the tasks associated with it. You will systematically remedy errors and carry out professional maintenance.

- + Electronic System Overview
- + Electrical Diagram of the tablet press
- + Network and Bus-Systems
- + Explanation of the PLC
- + Main encoder
- + Fill-O-Matic drive
- + Compression Station / Dosing Station / Adjustmentdrive
- + Measuring System
- + Sorting and tablet chute
- + Battery exchange
- + Adjustment of Reference Marks
- + Main Drive
- + Rotor clamping system



TABLETING PERFORMANCE

2 Days

Audience:
Experienced Operators, Developers, Quality Managers, Technologists

After this training course, you will be capable of safely handling the tablet press and the tasks associated with it. You will systematically remedy errors of production relevance and independently carry out performance-optimized processes.

- Customized Training with selected content such as:
- + Eliminate Quality Issues (e.g. Weight Variation, Tablet Contamination, Sticking, Capping, Lamination)
 - + Optimize Product Flow
 - + Minimize Product Loss
 - + Increase Output



GALENIC

3 Days

Audience:
Experienced Operators, Developers, Quality Managers, Technologists

After this training course, you will be capable of safely operating Fette Compacting Galenic software and generating graphics (force-way diagrams).

- + Machine Adjustment
- + Single-Punch Pressing
- + Production of Multi-Layer Tablets
- + Using the Galenic Software
- + Practical Exercises

Special Training Modules FE CPS



INTRODUCTION FE CPS

1 Day

Audience:
**Operators, Maintenance Staff,
Machine Setters, Developers, Quality
Managers, Technologists, Project
Managers, IT Administrators, Supervisors**

After this training course, you will have mastered the basics of an FE CPS and be familiar with the technical terms. You will know all the safety functions of the FE CPS and have received an overview of the functional principle.

- + Basics
- + System overview
- + Occupational safety
- + Functional principle
- + Practical exercises



OPERATIONS

2 Days

Audience:
**Operators, Machine Setters,
Quality Managers, Technologists**

After this training, you will be able to handle the FE CPS safely and carry out the relevant tasks. You will be able to independently prepare the system for production and start it according to specifications.

- + General settings
- + Production parameters
- + Startup for production
- + Set up production
- + Mass flow control
- + Sorting system
- + Calibrating and taring the process units
- + Practical exercises



CLEANING AND CHANGEOVER

2 Days

Audience:
**Maintenance Staff, Operator,
Machine Setters**

After this training, you will be able to set up the FE CPS and dismantle the process units. You will have learnt how to clean the individual components and will be able to reassemble them safely. You will then be able to handle the process units safely.

- + System overview
- + Preparation for cleaning
- + Dismantling the process units
- + Storage and transportation
- + Cleaning the process area
- + Handling, cleaning and preservation
- + Setup of the system



OPERATIONS ePAT

2 Days

Audience:

**Operators, Maintenance Staff,
Machine Setters, Developers,
Quality Managers, Technologists,
Project Managers, Supervisors**

In this training course, you will learn the basics of PAT. You will be able to set up and reference the measuring system and start production with active monitoring. You will also be trained in the sorting systems.

- + ePAT basics
- + System overview
- + Functional principle
- + Setting up the measuring probs
- + Referencing the system
- + Sorting out



alva is our digital learning platform with exclusive training content covering all aspects of Fette Compacting's products and solutions. New employees learn the basic principles of the tablet press as well as the entire tablet production process – reliable and available on mobile devices at any time. Our experienced team of trainers has developed all content. User-friendly and interactive 3D graphics and animations support the detailed instructions. In addition to a basic module on the functional principle, the user gets to know everything about the different components and assemblies of a tablet press. Moreover, alva provides comprehensive knowledge on how to increase production and quality. After each module, users have the opportunity to test their knowledge in order to document their understanding of the training content.

Key Features

- + Multimedia training with 3D animations, videos and images make content easy to understand
- + Exclusive content created by Fette Compacting's experts and trainers with over 50 years of expertise in training, application and technology
- + To be combined with live trainings and face-to-face events in the future
- + Download of a learning progress certificate – for a personal proof of qualification
- + For all experience levels: beginner lessons teaching the basic principles and also machine series specific contents

Benefits

- + The more you know, the more you can do!
Fast, efficient and correct onboarding knowledge for new employees
- + Learning wherever and whenever you want
- + Higher learning motivation through modern media and individual learning paths
- + Focused on the most important features
- + Designed for the needs of our customers due to joint development

Technical Requirements

- + Available on every mobile device via browser
- + Best usability with any tablet and computer
- + Personal login and access
- + Internet access

The alva Training Modules

Functional Principle

This basic module provides the user with a general overview of the tablet manufacturing process.

Learning objective:

The user knows the most important terms and components for the tablet production in a rotary tablet press.



Components and Assemblies

The components and assemblies of a tablet press are explained in various training sessions – from the description of the individual parts to setting and optimization options.

Learning objective:

The user knows the exact function of the component/ assembly, can assess the wear and replace spare parts independently if necessary.



Process Optimization

This training module addresses the most common topics for improving tablet quality and production efficiency.

Learning objective:

The user knows the most common issues such as weight variations, hardness problems, and product loss and is able to rectify them.



Complete Onboarding Process

New employees are familiar with the tablet production process and are able to operate and maintain the most important parts and functions of the tablet press.



alva

Contact

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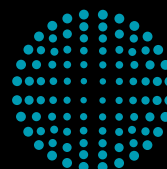
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