

Global Training Program

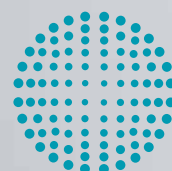
www.fette-compacting.com

TECHNOLOGY



COMPETENCE

SERVICE



**FETTE
COMPACTING**
be efficient

LMTGROUP
ACADEMY

Innovations- und
Schulungszentrum



FETTE
COMPACTING



LMT • FETTE

LMTGROUP
FINANCE &
SHARED SERVICES



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

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 and
- Yield

realized by

LMTGROUP
ACADEMY

Case Studies – Increase Results Through Staff Training

TABLETING PERFORMANCE

Train troubleshooting;
focus on product loss

Savings: € 42,550 p.a.

**Cost: € 4,098
(2 days of training)**

- + Analysis of team skills/gaps in production/process troubleshooting
- + Train the team in problem-solving processes
- + 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 preventive maintenance
& train team

Savings: € 20,000 p.a.

**Cost: € 10,245
(5 days of consulting & training)**

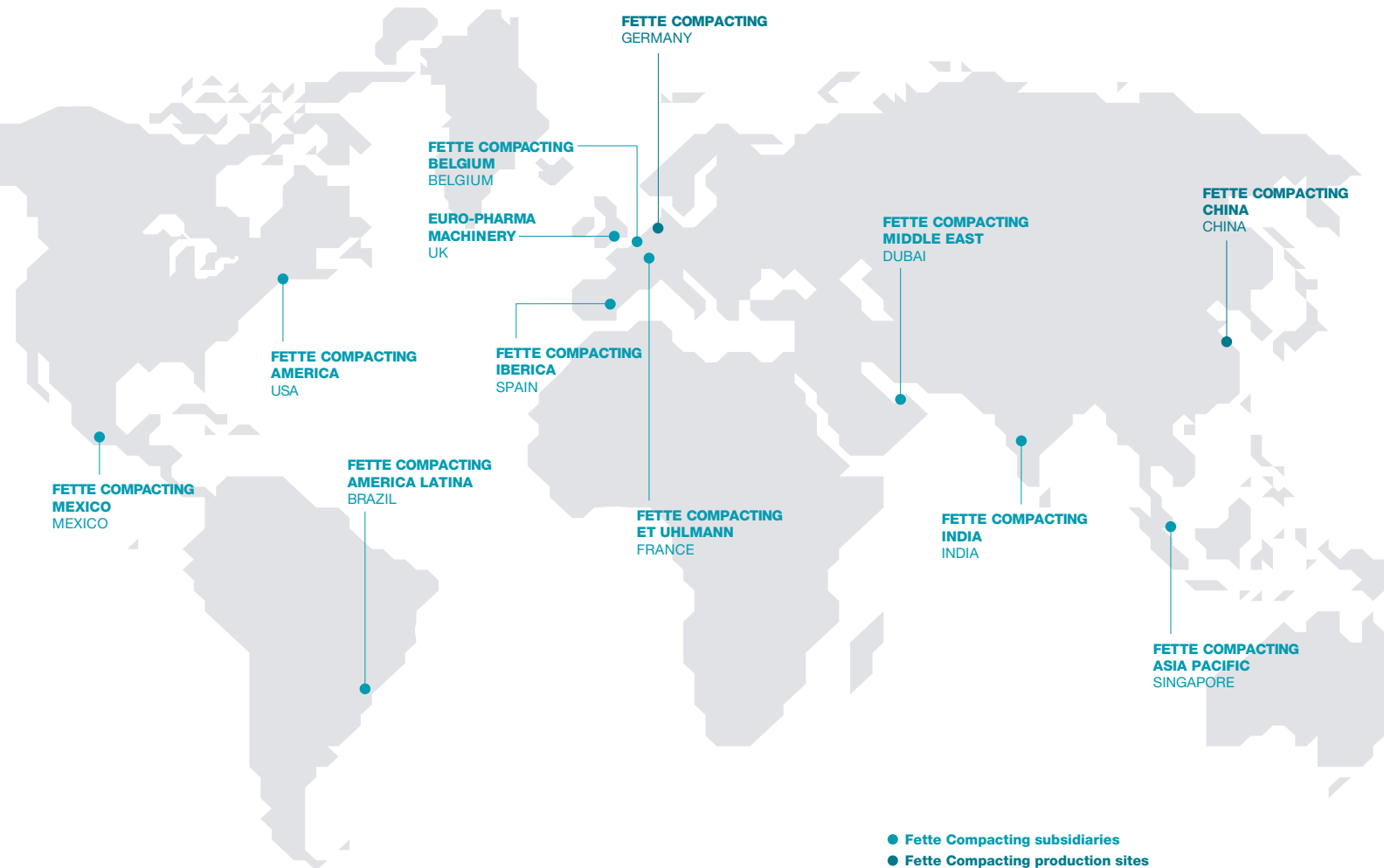
- + Analysis of existing preventive maintenance process
- + Development of preventive maintenance schedule
- + Train the team in the new process
- + Reduction of unplanned downtime by 200 hours per year
- + **200 h/p.a. machine capacity freed**
- + **1 machine hour = € 100 p.a.**



MODULES ▶ FUNCTION ▼	STANDARD TRAINING	STANDARD TRAINING	ADVANCED TRAINING	SPECIALTY TRAINING
PRODUCTION	Introductory	Operations	Tableting Performance	+ Bi-Layer Compression + Tableting Tools + In-Process Control + Turret Changeover + Cleaning & Changeover
R&D			Galenic	
MAINTENANCE MECHANICS		Maintenance Mechanics		+ Turret Changeover
MAINTENANCE ELECTRONICS		Maintenance Electronics		+ Turret Changeover + 2090i Removal Arm

Additionally, Fette Compacting offers **customized training** with content prepared individually as required by the customer.

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:

Mrs. Lena Buddeberg
Training & Consulting
Fette Compacting GmbH
training@fette-compacting.com
Phone +49 4151 12 569

Individual testing and definition of training required

Evaluation of individual staff knowledge

- Fette Compacting proposes standard or customized training.

Training & Certification

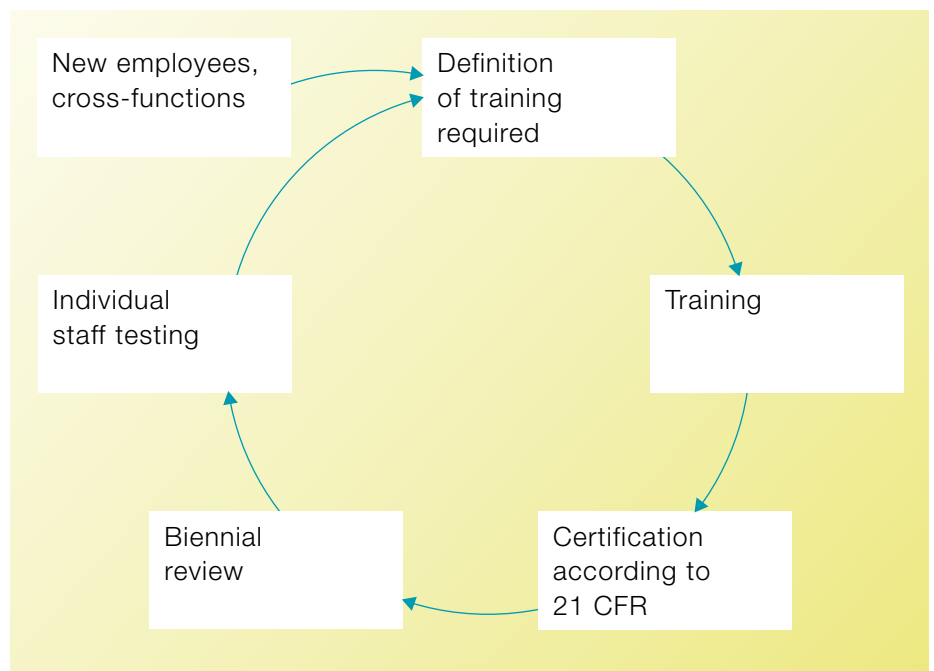
Each training ends with a test. (If unsuccessful, the gaps will be retrained and the test will be taken again.)

- 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



INTRODUCTORY

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 machine 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 machine 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



MAINTENANCE ELECTRONICS

2 Days

Audience:
Maintenance Staff (Electronic)

After this training course, you will be capable of safely handling the machine 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



Standard Training Modules Capsule Filling Machines



OPERATIONS

3 Days

Audience:

Operators, Machine Setters, Quality Managers, Technologists

After this training, you will be familiar of safely handling the machine and perform the corresponding tasks. You will fill capsules according to specification and independently perform minor optimizations in production. In addition, you will be able to set up the different format parts and install and remove the dosing units independently.

- + Introductory System Overview
- + Occupational Safety
- + Functional Principle
- + Dosing Combination (Filling of the capsules with pellets or over the tamping pin station)
- + Production Parameters
- + Creating a new Recipe
- + Start of Production
- + Format change including the format parts of the different dosing combination
- + Removal and installation of the Dosing units
- + Troubleshooting
- + Practical Exercises



MAINTENANCE MECHANICS

3 Days

Audience:

Maintenance Staff (Mechanical)

After this training, you will be able to handle the machine safely and perform the corresponding tasks. You will be able to eliminate faults systematically, carry out maintenance independently and thus increase machine availability. You will also learn to exchange the format parts and to remove the dosing units.

- + Standard Adjustments
- + Wear Parts
- + MIRA-View
- + Format change including the format parts of the different dosing combination
- + Removal and installation of the Dosing units
- + Adjustment of Reference Marks
- + Lubrication
- + Troubleshooting
- + Practical Exercises



BI-LAYER COMPRESSION

1 Day

Audience:

**Experienced Operators, Developers,
Quality Managers, Technologists**

After this training course, you will be capable of safely handling the machine 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 Press
- + Parameters of Bi-Layer Relevance
- + 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

Specialty 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



2090i 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 Machine
- + Handling, Cleaning and Preservation of Tableting Tools
- + Setup of the Machine



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 machine and process equipment for a washing cycle and perform then.

- + Overview of the Machine/Equipment
- + Install/Removal of Tableting Tools
- + Ports
- + WiP-Gun
- + WiP-Centre
- + Dryer
- + Wash Program
- + WiP-Functions
- + Air Management



MAINTENANCE MECHANICS WiP

3 Days

**Audience:
Maintenance Staff (Mechanical)**

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



MAINTENANCE ELECTRONICS WiP

3 Days

**Audience:
Maintenance Staff (Electronic)**

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.

- + Electronic System Overview
- + Electrical Diagram of the Machine
- + 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

Advanced Training Modules



TABLETING PERFORMANCE

2 Days

Audience:
Experienced Operators, Developers, Quality Managers, Technologists

After this training course, you will be capable of safely handling the machine 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



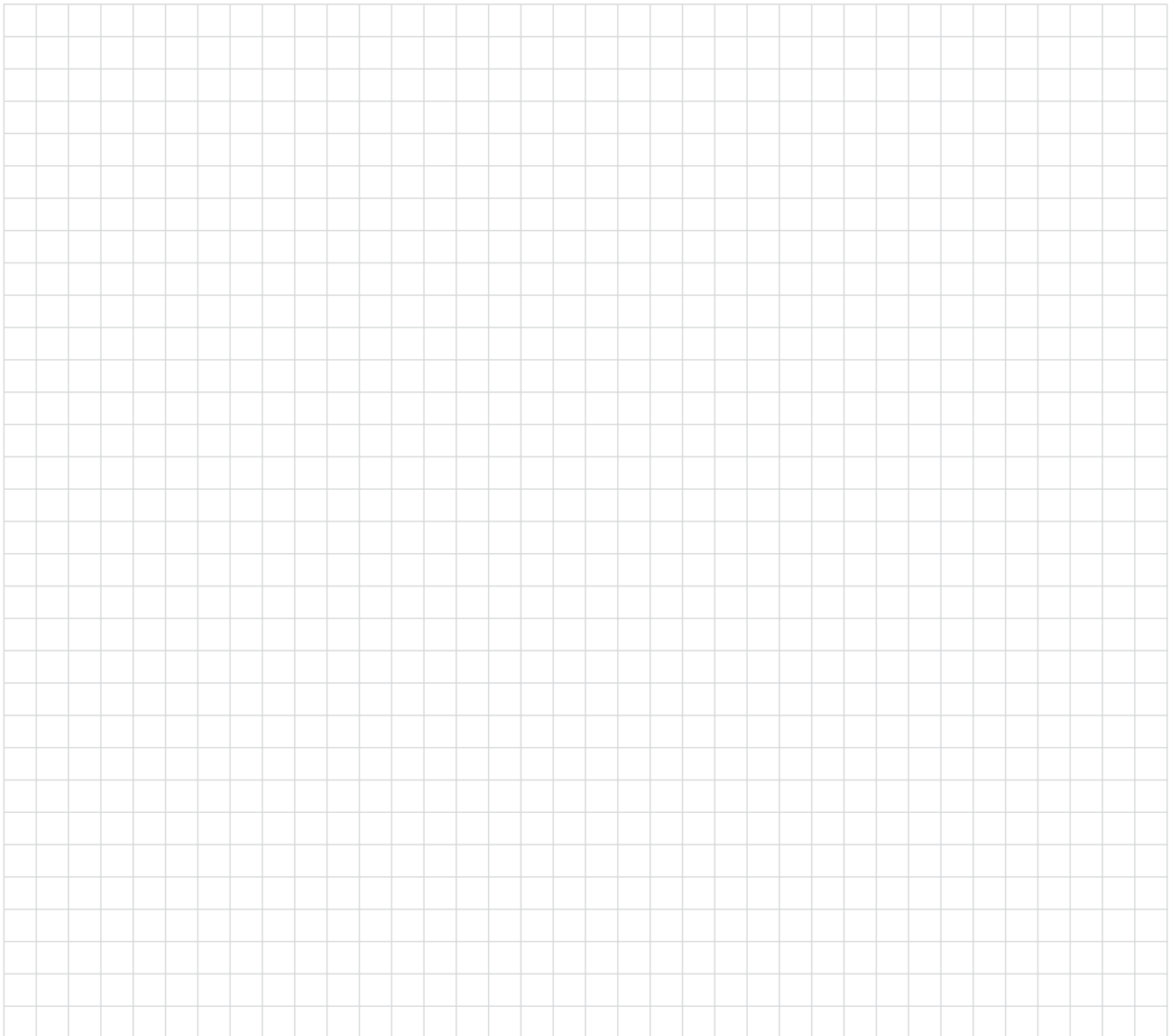
GALENIC

2 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



Fette Compacting GmbH

Grabauer Strasse 24
21493 Schwarzenbek, Germany
Phone +49 4151 12-0
Fax +49 4151 3797
tablet@fette-compacting.com

Fette Compacting America, Inc.

400 Forge Way
Rockaway N.J. 07866, USA
Phone +1 973 5868722
Fax +1 973 5860450
sales@fetteamerica.com

**Fette Compacting
America Latina Ltda.**

Av. Cambacica, 1200 módulo 10
Parque Imperador
CEP 13097-160
Campinas / SP, Brazil
Phone / Fax +55 19 37969910
contato@fette-compacting.com.br

**Fette Compacting Mexico,
SA de CV**

Adolfo Prieto No. 1638
Colonia Del Valle Sur
03100 Mexico, DF, Mexico
Phone +52 55 40000653
tablet@fette-compacting.com

Fette Compacting (China) Co., Ltd.

No. 9 Shengtong Road, Moling Sub-District,
Jiangning Development Zone,
211111 Nanjing
Jiangsu Province, P.R.C., China
Phone +86 25 52121818
Fax +86 25 52129951
fcn@fette-compacting.com

**Fette Compacting Machinery India
Private Limited**

A - 406 /407, 4th floor, Atrium 215,
Next to Hotel Courtyard Marriott,
Near J. B. Nagar Metro station,
Andheri – Kurla Road, J. B. Nagar,
Andheri (East)
400 093 Mumbai, India
Phone +91 22 62763399
sales@fette-compacting.com

Competence Centre
Plot No S 115, Phase III B
Verna Industrial Estate
Verna, Goa 403 722, India
Phone +91 22 62763356

**Fette Compacting
Asia Pacific Pte Ltd.**

107 Eunos Avenue 3, #01-01
Singapore 409837, Singapore
Phone +65 659 25654
Fax +65 654 71939
infoasiapacific@fette-compacting.com

Fette Compacting Ibérica SL

Avenida Labradores, 1
2ª Planta, Oficina 3
28760 Tres Cantos, Spain
Phone +34 91 8039689
Fax +34 91 3483052
fcib@fette-compacting.com

**Fette Compacting et
Uhlmann France**

1, Rue du Centre
93160 Noisy Le Grand, France
Phone +33 155 812121
Fax +33 155 812120
contact@fette-uhlmann.fr

Fette Compacting Belgium BVBA

Schaliënhoevedreef 1b
2800 Mechelen, Belgium
Phone +32 15 684260
Fax +32 15 684269
fcbe@fette-compacting.com

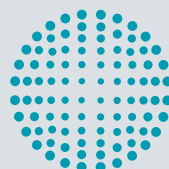
EuroPharma Machinery Ltd

Unit 12 Highview
Bordon, Hampshire, GU35 0AX
United Kingdom
Phone +44 1420 473344
Fax +44 1420 488030
admin@europharma.co.uk

Fette Compacting Middle East FZE

Jebel Ali Free Zone, Jafza
Lobby 14, Office 308, Dubai
United Arab Emirates
Phone +971 4 8808226
dubai@fette-compacting.com

www.fette-compacting.com



**FETTE
COMPACTING**
be efficient