



PRODUCT CATALOG

Service

↗ Customer service/ Service

precision is our standard

Training **Customer service / Service**

At FIBRO **in Hassmersheim**

- | | | |
|---|-------------|---|
| 1 | GDF 1 | Gas springs |
| 2 | GDF 2 | Gas spring without refill |
| 3 | StGDF 1 | Controllable gas springs |
| 4 | GNS 1 | Flex cam system |
| 5 | VBS 1 | Connector system |
| 6 | BetrSichV 1 | German Ordinance on Industrial Safety and Health |
| 7 | GDF 6 | Gas spring without refill
Information on PED and BetrSichV |
| 8 | HSP 1 | Manual hose press |

Onsite at the customer's location

9	GDF 3	Gas spring without refit
10	GDF 4	Gas springs
11	GDF 5	Gas spring without refit Information on PED and BetrSichV
12	StGDF 2	Controllable gas springs
13	GNS 2	Flex cam system
14	BetrSichV 2	German Ordinance on Industrial Safety and Health
15	HSP 2	Manual hose press
16	FETU	FIBRO Electronic Tapping Unit – Electronic thread tapping
17	WPM	Wireless Pressure Monitoring System

Training courses **At FIBRO in Hassmersheim**

All offers are valid for:

- 1.)** A registered customer number
- 2.)** A group with 1–5 participants
Catering included*

**Catering consists of breakfast with drinks as well as lunch (for courses longer than 3.5 hours)*

Fixed price upon request

1 GDF 1

Duration: 6 Hours including break

- Structure and function of FIBRO gas springs
- Organization into assembly-specific groups:
 - a) Disassembly or set-up from above
 - 2480. 12. / 13. 21. 22.1 23. 31. 32. 33. 82. / 15. / 24. / 25. / 26. / 35.
 - 2481. 12. / 13.
 - 2484. 12. / 13.
 - 2485. 12. / 13. / 15.
 - 2486. 12.
 - 2487. 12. 82. / 15.
 - 2488. 12. 13. / 15.
 - 2490. 15.01000. - .12800.
 - b) Disassembly or set-up from below
 - 2490. 14.01000. - 18300.
 - 2496. 12.
 - 2497. 15.
 - c) Handling of non-repairable gas springs
 - 2479.030 / 031. / 032. / 034. / 040. / 041. / 042.
 - 2482.72 / 73. / 74. / 75. / 76. / 77.
 - 2490.14.00420. - .00750.
 - 2490.15.00420. - .00500.
- Dismantling and re-erection of one spring per group (a) and (b)
- FIBRO gas springs in a combined system
- Fault detection and corrective measures
- Hassmersheim factory tour

2 GDF 2

Duration: 5 Hours including break

- Handling/working with gas springs
- Installation guidelines
- Trouble shooting Guide
- Filling/Draining
- Connector system Minimes/Micromess
- Hassmersheim factory tour

3 StGDF 1

Duration: 5 Hours including break

- **Theory**
 - a) Design and mode of operation of controllable gas springs
 - b) Explanation of the control times and control options
 - c) Cooling controllable gas springs
 - d) Accessories and connection options of controllable gas springs incl. air and cooling
- **Practice**
 - a) Practical instruction of hose connection in different variants
 - b) Filling and draining the combined systems
 - c) Trouble shooting Guide
- Hassmersheim factory tour
- Dismantling and re-erection of controllable gas springs

4 GNS 1

Duration: 5 Hours including break

- **Theory**
 - a) Structure and function of flex cam systems
 - b) Presentation of the different flex cam types
 - c) Combined arrangement
 - d) Flex cam system accessories
- **Practice**
 - a) Practical instruction in different variants
 - b) Filling and draining the combined systems
 - c) Trouble shooting Guide

5 VBS 1

Duration: 3 Hours including break

- Training for safe operation of the FIBRO manual hose press machine
- Lay out and production of hoses
- Set-up of FIBRO gas spring accessories
- Hassmersheim factory tour

6 BETRSICHV

Duration: 5,5 Hours including break

- Topics of the gas springs training (GDF)
- Topics of the controllable gas springs training (StGDF)
- Topics of the flex cam systems training (GNS)
- General topics
- Theory of BetrSichV
- Hassmersheim factory tour

7 GDF 6

Duration: 4 Hours including break

- Handling/working with gas springs
- Installation guidelines
- Trouble shooting Guide
- Filling/Draining
- Combined systems Minimes/Micromess
- Information on PED and BetrSichV
- Hassmersheim factory tour

8 HSP 1

Duration: 3,5 Hours including break

- Training for the safe operation of the FIBRO manual hose crimping machine
- Lay out and production of hoses
- Set-up of FIBRO gas spring accessories
- Hassmersheim factory tour

Training courses **onsite at the customer's location**

All offers are valid for:

- 1.)** A registered customer number
- 2.)** A group with 1–5 participants

We will be pleased to make you an individual offer

9 GDF 3

Duration: 2,5 hours

- Handling/working with gas springs
- Installation guidelines
- Trouble shooting Guide
- Filling/Draining
- Connector system Minimes/Micromess

10 GDF 4

Duration: 6 hours

- Structure and function of FIBRO gas springs
- Organization into assembly-specific groups:
 - a) Disassembly or set-up from above
 - 2480. 12. / 13. 21. 22.1 23. 31. 32. 33. 82. / 15. / 24. / 25. / 26. / 35.
 - 2481. 12. / 13.
 - 2484. 12. / 13.
 - 2485. 12. / 13. / 15.
 - 2486. 12.
 - 2487. 12. 82. / 15.
 - 2488. 12. 13. / 15.
 - 2490. 15.01000. - .12800.
 - b) Disassembly or set-up from below
 - 2490. 14.01000. - 18300.
 - 2496. 12.
 - 2497. 15.
 - c) Handling of non-repairable gas springs
 - 2479.030 / 031. / 032. / 034. / 040. / 041. / 042.
 - 2482.72 / 73. / 74. / 75. / 76. / 77.
 - 2490.14.00420. - .00750.
 - 2490.15.00420. - .00500.
- Dismantling and re-erection of one spring per group (a) and (b)
- FIBRO gas springs in a combined system
- Error detection and corrective measures

11 GDF 5

Duration: 2,75 hours

- Handling/working with gas springs
- Installation guidelines
- Trouble shooting Guide
- Filling/Draining
- Combined systems Minimesh/Micromess
- Information on PED and BetrSichV

12 StGDF 2

Duration: 4 hours

- **Theory**
 - a) Design and mode of operation of controllable gas springs
 - b) Explanation of the control times and control options
 - c) Cooling controllable gas springs
 - d) Accessories and connection options of controllable gas springs incl. air and cooling
- **Practice**
 - a) Practical instruction of hose connection in different variants
 - b) Filling and draining the combined systems
 - c) Trouble shooting Guide
 - d) Dismantling and re-erection of controllable gas springs

13 GNS 2

Duration: 3 hours

- **Theory**
 - a) Structure and function of flex cam systems
 - b) Presentation of the different flex cam types
 - c) Combined arrangement
 - d) Flex cam system accessories
- **Practice**
 - a) Practical instruction in different variants
 - b) Filling and draining the combined systems
 - c) Trouble shooting Guide

14 BETRSICHV 2

Duration: 4 hours

- Topics of the gas springs training (GDF)
- Topics of the controllable gas springs training (StGDF)
- Topics of the flex cam systems training (GNS)
- General topics
- Theory of BetrSichV

15 HSP 2

Duration: 2,5 hours

- Training for the safe operation of the FIBRO manual hose crimping machine
- Lay out and production of hoses
- Set-up of FIBRO gas spring accessories

16 FETU

Duration: 2,5 hours

- Set-up, operation and handling, of the tapping unit
- Programming of new tools
- Error recognition and troubleshooting

17 WPM

Duration: 5 hours

Prerequisite for this training is a registered GATEWAY, IoT

Part 1: Fundamentals of gas springs/hardware

- Gas springs training 3 (2. hrs.)
- Working with gas springs
- Installation guidelines
- Set-up of WPM accessories
- Filling/Draining

Part 2: Gateway, IoT/Software

- Technical fundamentals and general functionality
- Definition
- Connecting the gateway, IoT, to a PC and initial setup
- Software registration (optional)
- Notes on connecting with a PLC control unit
- WPM-APP functionality
- Independent setup of a system with data storage device and sensor

www.fibro.com

FIBRO GmbH
Business Unit Normalien
August-Läpple-Weg
74855 Hassmersheim
GERMANY
T +49 6266 73-0
info@fibro.de

precision +++
is our +++
standard +++