



**360° TRAININGS**

## Training and seminar program 2026

2026

- » Practice-oriented courses and seminars for the professional handling of Hennecke's machine and plant technology





## PROFESSIONAL AND PRACTICE-ORIENTED

The 360°TRAINING courses are taught at our inhouse training center with clear theoretical content which is tested and trained through practical implementation on original machines. The modularity of our portfolio ensures that the instruction and training is well customized. In addition to our standard training program we also offer online courses and special seminars.

## EXPLANATIONS OF THE MODULES

The following pages contain further information about the individual modules and their content. Please note our recommendations for participating in different training modules.

- » We recommend that novices attend the polyurethane technology [G-PU] basics seminar as a prerequisite for attending different seminars in module group II.
- » The seminars in module group III are primarily aimed at maintenance staff, fitters, machine operators and foremen. However the seminars are also recommended for applied engineering and for heads of production and maintenance.
- » For module group IV we are offering online training. As well as three standard sessions, we can provide customized online courses upon request. Some prior knowledge is useful here.
- » In module group V we can offer you a series of customer-specific seminars upon request. These are carried out exclusively on the machine or plant at your premises.
- » All seminars are offered in English at no extra cost. For exact dates please contact our 360°Service Hotline.

If you have any questions, we can be contacted in person at all times.

# MODULES I - V



## SEMINARS CONDUCTED AT THE HENNECKE TRAINING CENTER OR AT THE CUSTOMER'S PREMISES

Module I	Module II	Module III
<p><b>Basic seminars</b></p>	<p><b>Seminars for metering machine and mixhead technology</b></p>	<p><b>Seminars for technical service, maintenance and electrical engineering</b></p>
<p><b>BASICS OF POLYURETHANE TECHNOLOGY [G-PU]</b></p> <p>One day, theory and practice</p>	<p><b>HIGH-PRESSURE METERING MACHINES [G-HP]</b></p> <p>ECOPLUS, HIGHLINE, TOPLINE, PUR-CSM incl. NEXT-GEN</p> <p>incl. mixhead series MT, MT-A, MT-E, MXL, MN</p> <p>Three days, theory and practice</p>	<p><b>HIGH-PRESSURE METERING MACHINES [M-HP]</b></p> <p>ECOPLUS, HIGHLINE, TOPLINE, PUR-CSM incl. NEXT-GEN</p> <p>incl. mixhead series MT, MT-A, MT-E, MXL, MN</p> <p>Three days, theory and practice</p>
<p><b>BASICS OF MIXHEAD TECHNOLOGY [G-M]</b></p> <p>available for the mixhead series MT, MT-A, MT-E, MXL, MN, MEL</p> <p>One day, theory and practice</p>	<p><b>STREAMLINE MK2 [G-STL]</b></p> <p>incl. mixhead series MN 8 MC-SC + RTM</p> <p>Three days, theory and practice</p>	<p><b>STREAMLINE MK2 [M-STL]</b></p> <p>incl. mixhead series MN 8 MC-SC + RTM</p> <p>Three days, theory and practice</p>
	<p><b>LOW-PRESSURE METERING MACHINES [G-EL]</b></p> <p>ELASTOLINE V/F</p> <p>incl. mixhead series MEL</p> <p>Three days, theory and practice</p>	<p><b>LOW-PRESSURE METERING MACHINES [M-EL]</b></p> <p>ELASTOLINE V/F</p> <p>incl. mixhead series MEL</p> <p>Three days, theory and practice</p>



The dates for **modules I and II** can be found in our seminar program on p. 6. The dates for **modules III and V** can be obtained **upon request**. **Modules I - III** can be conducted in the **Hennecke training center** or at **your premises**. **Module V** can **only be conducted at your premises**.

The seminar fees provided refer to the training sessions in the Hennecke training center and the online courses. Please contact us to request the fees for training courses conducted at your premises.

Just scan the QR code or click on the link.

[service.hennecke-group.com/contact](http://service.hennecke-group.com/contact)





## ONLINE TRAINING

### Module IV

Online training for metering machines and mixhead technology

**ONLINE TRAINING POLYURETHANE TECHNOLOGY [W-PU]**

Approx. 2 hours Theory

**ONLINE TRAINING MIXHEAD TECHNOLOGY [W-M]**

Approx. 1/2 day Theory

**ONLINE TRAINING HMI OPERATION [W-HMI]**

ECOPLUS, HIGHLINE, TOPLINE, STREAMLINE MK2, ELASTOLINE, IMPACT

Approx. 1/2 day Theory

**WEB-TRAINING CONTROLS & CONNECTIVITY [W-CC]**

FOAMWARE, FOAMATIC IoT

Approx. 2 hours Theory

## SEMINARS CONDUCTED ONLY AT THE CUSTOMER'S PREMISES

### Module V

Customized Seminars

Special machines

MICROLINE

TOPLINE HK-MF (multiple components)

TOPLINE HT  
incl. TOPLINE HT500evo and HT30evo

HK-R5000

CARBOMAT

AEROMAT GU / ST

PENTAMAT/LAMB DAMAT

ELASTOLINE HP

COLOURLINE

Plant technology

Technical insulation lines

Slabstock lines

Molded foam lines

PREG lines (Honeycomb sandwich panels)

ROBOT INTEGRATION

# 2026

## ALL SEMINAR DATES AT A GLANCE

January	February	March	April	May	June
1 Thu 1	1 Sun	1 Sun	1 Wed	1 Fri	1 Mon 23
2 Fri	2 Mon 6	2 Mon 10	2 Thu	2 Sat	2 Tue
3 Sat	3 Tue G/M-EL	3 Tue G/M-STL	3 Fri	3 Sun	3 Wed
4 Sun	4 Wed G/M-EL	4 Wed G/M-STL	4 Sat	4 Mon 19	4 Thu
5 Mon 2	5 Thu G/M-EL	5 Thu G/M-STL	5 Sun	5 Tue G-PU	5 Fri
6 Tue	6 Fri	6 Fri	6 Mon 15	6 Wed G-M	6 Sat
7 Wed	7 Sat	7 Sat	7 Tue	7 Thu	7 Sun
8 Thu	8 Sun	8 Sun	8 Wed	8 Fri	8 Mon 24
9 Fri	9 Mon 7	9 Mon 11	9 Thu	9 Sat	9 Tue G/M-EL
10 Sat	10 Tue	10 Tue G-PU	10 Fri	10 Sun	10 Wed G/M-EL
11 Sun	11 Wed	11 Wed G-M	11 Sat	11 Mon 20	11 Thu G/M-EL
12 Mon 3	12 Thu	12 Thu	12 Sun	12 Tue	12 Fri
13 Tue G-PU	13 Fri	13 Fri	13 Mon 16	13 Wed	13 Sat
14 Wed G-M	14 Sat	14 Sat	14 Tue G/M-EL	14 Thu	14 Sun
15 Thu	15 Sun	15 Sun	15 Wed G/M-EL	15 Fri	15 Mon 25 W-PU
16 Fri	16 Mon 8	16 Mon 12 G-PU	16 Thu G/M-EL	16 Sat	16 Tue W-M
17 Sat	17 Tue	17 Tue G/M-HP	17 Fri	17 Sun	17 Wed W-HMI
18 Sun	18 Wed	18 Wed G/M-HP	18 Sat	18 Mon 21 G-PU	18 Thu W-CC
19 Mon 4 G-PU	19 Thu	19 Thu G/M-HP	19 Sun	19 Tue G/M-HP	19 Fri
20 Tue G/M-HP	20 Fri	20 Fri	20 Mon 17	20 Wed G/M-HP	20 Sat
21 Wed G/M-HP	21 Sat	21 Sat	21 Tue	21 Thu G/M-HP	21 Sun
22 Thu G/M-HP	22 Sun	22 Sun	22 Wed	22 Fri	22 Mon 26
23 Fri	23 Mon 9	23 Mon 13 W-PU	23 Thu	23 Sat	23 Tue G/M-STL
24 Sat	24 Tue	24 Tue W-M	24 Fri	24 Sun	24 Wed G/M-STL
25 Sun	25 Wed	25 Wed W-HMI	25 Sat	25 Mon 22	25 Thu G/M-STL
26 Mon 5	26 Thu	26 Thu W-CC	26 Sun	26 Tue	26 Fri
27 Tue W-PU	27 Fri	27 Fri	27 Mon 18	27 Wed	27 Sat
28 Wed W-M	28 Sat	28 Sat	28 Tue G/M-STL	28 Thu	28 Sun
29 Thu W-HMI		29 Sun	29 Wed G/M-STL	29 Fri	29 Mon 27
30 Fri W-CC		30 Mon 14	30 Thu G/M-STL	30 Sat	30 Tue G-PU
31 Sat		31 Tue		31 Sun	



Please contact us at any time if you need an individual seminar date.

Just scan the QR code or click on the link.  
[service.hennecke-group.com/contact](http://service.hennecke-group.com/contact)



July	August	September	October	November	December
1 Wed <b>G-M</b>	1 Sat	1 Tue	1 Thu <b>G/M-STL</b>	1 Sun	1 Tue
2 Thu	2 Sun	2 Wed	2 Fri	2 Mon 45	2 Wed
3 Fri	3 Mon 32	3 Thu	3 Sat	3 Tue	3 Thu
4 Sat	4 Tue	4 Fri	4 Sun	4 Wed	4 Fri
5 Sun	5 Wed	5 Sat	5 Mon 41	5 Thu	5 Sat
6 Mon 28 <b>G-PU</b>	6 Thu	6 Sun	6 Tue <b>G-PU</b>	6 Fri	6 Sun
7 Tue <b>G/M-HP</b>	7 Fri	7 Mon 37 <b>W-PU</b>	7 Wed <b>G-M</b>	7 Sat	7 Mon 50
8 Wed <b>G/M-HP</b>	8 Sat	8 Tue <b>W-M</b>	8 Thu	8 Sun	8 Tue <b>G/M-STL</b>
9 Thu <b>G/M-HP</b>	9 Sun	9 Wed <b>W-HMI</b>	9 Fri	9 Mon 46 <b>G-PU</b>	9 Wed <b>G/M-STL</b>
10 Fri	10 Mon 33	10 Thu <b>W-CC</b>	10 Sat	10 Tue <b>G/M-HP</b>	10 Thu <b>G/M-STL</b>
11 Sat	11 Tue	11 Fri	11 Sun	11 Wed <b>G/M-HP</b>	11 Fri
12 Sun	12 Wed	12 Sat	12 Mon 42	12 Thu <b>G/M-HP</b>	12 Sat
13 Mon 29	13 Thu	13 Sun	13 Tue	13 Fri	13 Sun
14 Tue	14 Fri	14 Mon 38	14 Wed	14 Sat	14 Mon 51
15 Wed	15 Sat	15 Tue <b>G/M-EL</b>	15 Thu	15 Sun	15 Tue
16 Thu	16 Sun	16 Wed <b>G/M-EL</b>	16 Fri	16 Mon 47 <b>W-PU</b>	16 Wed
17 Fri	17 Mon 34	17 Thu <b>G/M-EL</b>	17 Sat	17 Tue <b>W-M</b>	17 Thu
18 Sat	18 Tue	18 Fri	18 Sun	18 Wed <b>W-HMI</b>	18 Fri
19 Sun	19 Wed	19 Sat	19 Mon 43	19 Thu <b>W-CC</b>	19 Sat
20 Mon 30	20 Thu	20 Sun	20 Tue	20 Fri	20 Sun
21 Tue	21 Fri	21 Mon 39	21 Wed	21 Sat	21 Mon 52
22 Wed	22 Sat	22 Tue	22 Thu	22 Sun	22 Tue
23 Thu	23 Sun	23 Wed	23 Fri	23 Mon 48	23 Wed
24 Fri	24 Mon 35	24 Thu	24 Sat	24 Tue <b>G/M-EL</b>	24 Thu
25 Sat	25 Tue	25 Fri	25 Sun	25 Wed <b>G/M-EL</b>	25 Fri
26 Sun	26 Wed	26 Sat	26 Mon 44	26 Thu <b>G/M-EL</b>	26 Sat
27 Mon 31	27 Thu	27 Sun	27 Tue	27 Fri	27 Sun
28 Tue	28 Fri	28 Mon 40	28 Wed	28 Sat	28 Mon 53
29 Wed	29 Sat	29 Tue <b>G/M-STL</b>	29 Thu	29 Sun	29 Tue
30 Thu	30 Sun	30 Wed <b>G/M-STL</b>	30 Fri	30 Mon 49	30 Wed
31 Fri	31 Mon 36		31		31 Thu

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# BASIC SEMINARS

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## I BASICS OF POLYURETHANE TECHNOLOGY [G-PU]

### LEARNING OBJECTIVE

The participants gain basic knowledge about polyurethane technology. They learn about the composition and behavior of the components during the chemical reaction. In addition the seminar provides valuable information relating to safe handling of chemicals and the correct storage of raw materials.

### SEMINAR CONTENTS

Basics of polyurethane raw materials

Products manufactured from polyurethane

Hazards and how to avoid them when processing polyurethane materials

The reaction mixture

Practical exercises with test shots on the machine

Determining the characteristic parameters during the course of the reaction



#### Target group

Novices, machine fitters, machine operators, heads of production, quality assurance personnel

#### Number of participants

Three to six people

#### Duration of seminar

One day, 9:00 – 16:00 hrs

#### Seminar fee

650 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

### LEARNING OBJECTIVE

The participants will learn about the functioning and operation of the respective mixhead series. They will learn everything to do with necessary maintenance work, correct disassembly and independent repair of wear parts. Furthermore, the seminar participants will be shown how to determine errors and faults on the mixhead and how to rectify them.

### SEMINAR CONTENTS

Operating principle and configuration of the mixhead

Injector selection and replacement

- Conventional and constant pressure injector (series MT, MT-A, MT-E, MXL, MN, MEL)

Adjusting the foaming pressure

Throttling the mixing chamber

Electric, hydraulic and pneumatic (series MXL) control of the mixhead

Troubleshooting and rectification

Maintenance and practical instruction on mixhead

- Changing seals on ejector and injectors
- Replacing and adjusting the proximity switch in the mixhead



#### Target group

Novices, machine fitters, machine operators, maintenance staff

Each seminar relates to one mixhead series [MT, MT-A, MT-E, MXL, MN, MEL]

#### Number of participants

Three to six people

#### Duration of seminar

One day, 9:00 – 16:00 hrs

#### Seminar fee

650 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

# SEMINARS FOR METERING MACHINE OPERATORS



## HIGH-PRESSURE METERING MACHINES [G-HP]

### LEARNING OBJECTIVE

After the seminar, participants will have mastered the operation and adjustment of high-pressure metering machines. They will be able to name the components used and know their function and mode of operation. They will be able to perform production adjustments and changes to the plant parameters independently and effectively. Furthermore they will be able to explain the operating principles and adjust the pumps, mixhead and injectors. In addition the participants will be able to localize errors that occur on the machine and mixhead and rectify them (error simulation).

### SEMINAR CONTENTS

Configuration of a high-pressure metering machine based on the schematics (wet part and hydraulics)

Working with the documentation and spare parts lists

Safety devices and their functions

Operating principle and configuration of metering pumps

Operating principle and configuration of the mixhead  
MT, MT-A, MT-E, MXL, MN

Machine operation at HMI, overview of the individual menus and explanation of the adjustable parameters

Recording and function of a pump characteristic curve

Practical system operation and handling

Adjusting the foaming pressure, injector selection and injector change

Electric, hydraulic and pneumatic (MXL series) control of the mixhead

Localization and elimination of malfunctions and errors



#### Target group

Novices, machine fitters, machine operators, foremen, application engineers, quality assurance staff, heads of production or maintenance

For new users, we recommend taking part in our basic seminar on polyurethane technology [G-PU]

#### Number of participants

Three to six people

#### Duration of seminar

Three days, 9:00 – 16:00 hrs

#### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

#### \* ECOPLUS MK2

Duration of seminar: Two days, 9:00 – 16:00 hrs  
Seminar fee: 1300 euros per participant (plus VAT)



## LEARNING OBJECTIVE

After the seminar, the participants will have mastered the operation and adjustment of the STREAMLINE MK2 high-pressure metering machines. They are able to name the components used and understand their function and mode of operation. Production adjustments and changes to the plant parameters can be performed independently and effectively. In addition, the participants will be able to localize errors that occur on the machine and mixhead and rectify them (error simulation).

## SEMINAR CONTENTS

Configuration of the STREAMLINE MK2 metering machine based on the schematics (wet part and hydraulics)

Working with the documentation and spare parts lists

Safety devices and their functions

Operating principle and configuration of metering pumps

Operating principle and configuration of the mixhead

Machine operation at HMI, overview of the individual menus and explanation of the adjustable parameters

Recording and function of a pump characteristic curve

Practical system operation and handling

Adjusting the foaming pressure, injector selection and injector change

Electric, hydraulic control of the mixhead

Localization and elimination of malfunctions and errors



### Target group

Novices, machine fitters, machine operators, foremen, application engineers, quality assurance staff, heads of production or maintenance

### Number of participants

Three to six people

### Duration of seminar

Three days, 9:00 – 16:00 hrs

### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**



## LOW-PRESSURE METERING MACHINE ELASTOLINE V/F [G-EL]

### LEARNING OBJECTIVE

After the seminar the participants will have mastered the independent operation and adjustment of the low-pressure reaction casting machine ELASTOLINE. They will learn the function and mode of operation of all the assemblies and individual parts installed in the machine. Production adjustments and changes to the plant parameters can be performed independently and in line with processes. In addition, the participants will be able to localize errors that occur on the machine and mixhead and rectify them (error simulation).

### SEMINAR CONTENTS

Configuration of the ELASTOLINE reaction casting machine based on the schematics and layouts

Working with the documentation and spare parts lists

Safety devices and their functions

Operating principle and configuration of metering pumps

Operating principle and configuration of the mixhead

Function and principle of the heating systems

Machine operation at HMI, overview of the individual menus and explanation of the adjustable parameters

Recording and function of a pump characteristic curve

Practical system operation and handling

Adjusting all relevant process pressures

Electric, hydraulic and pneumatic control of the MEL mixhead

Localization and elimination of malfunctions and errors



#### Target group

Novices, machine fitters, machine operators, foremen, application engineers, quality assurance staff, heads of production or maintenance

#### Number of participants

Three to six people

#### Duration of seminar

Three days, 9:00 – 16:00 hrs

#### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

# SEMINARS FOR TECHNICAL SERVICE AND MAINTENANCE



## HIGH-PRESSURE METERING MACHINES [M-HP]

### LEARNING OBJECTIVE

After the seminar, participants will have mastered how to maintain and service high-pressure metering machines. They will be able to carry out necessary maintenance work and repairs independently, effectively and promptly.

### SEMINAR CONTENTS

Configuration of a high-pressure metering machine based on the schematics (wet part and hydraulics)

Safety devices and their function

Checking and filling the hydraulic bladder accumulators

Basic requirements for operating the machine (power supply)

Maintaining and repairing the tank periphery (refill pump)

Checking and replacing component filters

Checking the function of the metering pumps

Checking the sealant receptacle on the seals (stirrer, metering pump, high/low pressure switchover)

Checking the injectors and carrying out maintenance work

Providing instruction in the necessary maintenance work on the mixhead MT, MT-A, MT-E, MXL, MN

Troubleshooting and eliminating errors

Handling the lubrication and maintenance plan of the machine

Structural layout of circuit diagrams

Performing restores and backups on HMIs (depending on the hardware)

Hardware layout and function of the standardized interface between reaction casting machines and dry parts or robots



#### Target group

Maintenance, service personnel, foremen, heads of production

For new users, we recommend taking part in the seminar Metering machine technology [G-HP]

#### Number of participants

Three to six people

#### Duration of seminar

Three days, 9:00 – 16:00 hrs

#### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

#### \* ECOPLUS MK2

Duration of seminar: Two days, 9:00 – 16:00 hrs  
Seminar fee: 1300 euros per participant (plus VAT)



## LEARNING OBJECTIVE

After the seminar, the participants will have mastered how to maintain and service the STREAMLINE MK2 series of high-pressure metering machines. They will be able to carry out necessary maintenance work and repairs independently, effectively and promptly.

## SEMINAR CONTENTS

Configuration of a STREAMLINE MK2 metering machine based on the schematics (wet part and hydraulics)

Safety devices and their function

Checking and filling the hydraulic bladder accumulators

Basic requirements for operating the machine (power supply)

Maintaining and repairing the tank periphery (vacuum pump, refill- diaphragm pump)

Checking and replacing component filters

Checking the function of the feed and metering pumps

Checking the injectors and carrying out maintenance work

Providing instruction in the necessary maintenance work on the mixhead

Troubleshooting and eliminating errors

Handling the lubrication and maintenance plan of the machine

Structural layout of circuit diagrams

Performing restores and backups on HMIs (depending on the hardware)

Hardware layout and function of the standardized interface between reaction casting machines and dry parts or robots



### Target group

Maintenance, service personnel, foremen, heads of production

For new users, we recommend taking part in the seminar metering machine technology [G-STL]

### Number of participants

Three to six people

### Duration of seminar

Three days, 9:00 – 16:00 hrs

### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**



## LOW-PRESSURE METERING ELASTOLINE V/F [M-EL]

### LEARNING OBJECTIVE

After the seminar, participants will have mastered how to maintain and service the ELASTOLINE F und ELASTOLINE V low-pressure metering machines. They will be able to carry out necessary maintenance work and repairs independently, effectively and promptly.

### SEMINAR CONTENTS

Configuration of an ELASTOLINE metering machine based on the schematics (wet part and hydraulics)

Safety devices and their function

Checking and filling the hydraulic bladder accumulators

Basic requirements for operating the machine (power supply)

Maintaining and repairing the tank periphery (vacuum pump, refill- diaphragm pump)

Checking the tank temperature control (oil)

Checking and replacing component filters

Checking the function of the metering pumps

Checking the injectors and carrying out maintenance work

Performing maintenance work on the MEL stirrer mixhead

Troubleshooting and eliminating errors

Handling the lubrication and maintenance plan of the machine

Structural layout of circuit diagrams

Performing restores and backups on HMIs (depending on the hardware)

Hardware layout and function of the standardized interface between reaction casting machines and dry parts or robots



#### Target group

Maintenance, service personnel, foremen, heads of production

For new users, we recommend taking part in the seminar Metering machine technology [G-EL]

#### Number of participants

Three to six people

#### Duration of seminar

Three days, 9:00 – 16:00 hrs

#### Seminar fee

1950 euros per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

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# ONLINE TRAINING

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IV

ONLINE TRAINING POLYURETHANE TECHNOLOGY [W-PU]

## LEARNING OBJECTIVE

The participants gain basic knowledge about polyurethane technology. They learn about the composition and behavior of the components during the chemical reaction. In addition the seminar provides valuable information relating to safe handling of the chemicals and correct storage of raw materials.

## SEMINAR CONTENTS

Basics of polyurethane raw materials

Products manufactured from polyurethane

Hazards and how to avoid them when processing polyurethane materials

The reaction mixture

Video of a "manual" exercise

Determining the characteristic parameters during the course of the reaction

Determining the bulk density of the finished product (video)



### Target group

Novices, machine fitters, machine operators, heads of production, quality assurance personnel

### Number of participants

Three to six people

### Duration of seminar

About three hours,  
9:00 – 12:00 hrs

### Seminar fee

180 euros per participant  
(plus VAT)

**Please contact us at any time  
if you require a specific  
seminar date**

## LEARNING OBJECTIVE

The participants will learn about the functioning and operation of the respective mixhead series. They will learn everything to do with necessary maintenance work, correct disassembly and independent repair of wear parts. Furthermore, the seminar participants will be shown how to determine errors and faults on the mixhead and how to rectify them.

## SEMINAR CONTENTS

Operating principle and configuration of the mixhead

Injector selection and replacement

- Conventional and constant pressure injector (series MT, MXL)

Adjusting the foaming pressure

Throttling the mixing chamber

Electric, hydraulic and pneumatic (series MXL)  
control of the mixhead

Troubleshooting and rectification

Maintenance and practical instruction on mixhead

- Changing seals on ejector and injectors

- Replacing and adjusting the proximity switch in the mixhead



### Target group

Novices, machine fitters, machine operators, maintenance staff

Each seminar relates to one mixhead series  
[MT-A, MT, MXL, MN, MEL]

### Number of participants

Three to six people

### Duration of seminar

About half a day,  
9:00 – 12:00 hrs

### Seminar fee

360 euros per participant  
(plus VAT)

**Please contact us at any time  
if you require a specific  
seminar date**

## LEARNING OBJECTIVE

The HMI (Human Machine Interface) in the form of a touchscreen panel is the central interface between the machine operator and the machine automation. The participants learn how to operate the machine on the HMI. They are given an overview of the individual menus and the adjustable parameters are explained.

## SEMINAR CONTENTS

Machine operation at the HMI

Overview of individual menus

Explanation of adjustable parameters

Recording the characteristic curve

Calibration

Adjusting the metering program

Data backup and recovery

Troubleshooting and rectification



### Target group

Novices, machine fitters, machine operators, maintenance staff

### Number of participants

Three to six people

### Duration of seminar

About half a day,  
9:00 – 12:00 hrs

### Seminar fee

360 euros per participant  
(plus VAT)

**Please contact us at any time  
if you require a specific  
seminar date**

## LEARNING OBJECTIVE

Depending on the seminar selection (FOAMWARE or FOAMATIC-IoT), participants will gain an overview of the respective digital solutions, their individual menus, and explanations of the adjustable parameters and filters.

### SEMINAR CONTENTS FOAMWARE

Visualization via flow charts, process charts, and Calibration Manager/History

Tools for analyzing target and actual values

Detection of deviations during operation

Calibration function for stable, reproducible processes

Integrated production database (programs, recipes, parameters)

Display of all relevant fill levels

Integrated error and chart analysis

### SEMINAR CONTENTS FOAMATIC-IoT

Visualization and analysis of production- and process-related data

Long-term analysis of machine data and production parameters using various selectable filters

Predictive and optimized maintenance via maintenance alerts

Options for evaluating energy consumption

Display of Overall Equipment Effectiveness (OEE)



#### Target group

Experienced machine operators, quality management

#### Number of participants

Three to six people

#### Duration of seminar

Approximately 1.5 hours

#### Seminar fee

90.00 EUR per participant (plus VAT)

**Please contact us at any time if you require a specific seminar date**

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# CUSTOMIZED SEMINARS

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## SPECIAL MACHINES

We also offer additional seminars and special topics.  
Please contact us to request the terms and conditions for customized seminars.

### MICROLINE

Operating and adjusting the MICROLINE metering machine. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Adjusting the discharge capacities of the pumps. Adjusting the metering pressure on the injectors / mixhead.

### TOPLINE HK-MF (multiple components)

Operating and adjusting the TOPLINE HK-MF metering machine with four or six components. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Adjusting the discharge capacities of the pumps. Adjusting the metering pressure on the injectors / mixhead.

### TOPLINE HT / TOPLINE HT500evo / HT30evo

Operating and adjusting the HT metering machines. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Adjusting the discharge capacities of the plunger pumps. Adjusting the metering pressure on the injectors / mixhead. Each seminar focuses on one HT machine system.

### HK-R 5000

Operating and adjusting the HK-R 5000 metering machine. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Highlighting the special features of the stirrer mixhead and the tandem metering pumps.

### CARBOMAT

Operating and adjusting the CARBOMAT blowing agent metering unit. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Device-specific advantages / savings potential of the blowing agent metering unit.

### AEROMAT GU / ST

Operating and adjusting the AEROMAT gas loading unit. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters.

### PENTAMAT und LAMBDMAT

Operating and adjusting the PENTAMAT blowing agent metering unit. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters.

### ELASTOLINE HP

Operating and adjusting the high-pressure metering machines for processing PU elastomers. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Adjusting the discharge capacities on the pumps. Adjusting the metering pressure on the injectors / mixhead.

### COLOURLINE

Operating and adjusting the COLOURLINE metering machine. Naming the components and becoming familiar with their function and mode of operation. Adjusting and changing the production parameters. Adjusting the discharge capacities on the pumps. Adjusting the metering pressure on the injectors / mixhead.

# V

## PLANT TECHNOLOGY

We also offer additional seminars and special topics.  
Please contact us to request the terms and conditions for customized seminars.

### Technical insulation lines

Operating and adjusting plants for technical insulation. Becoming familiar with the special features of the plant's wet part.  
Adjusting and changing the production parameters.

### Slabstock lines

Operating and adjusting slabstock plants. Becoming familiar with the special features of the plant's wet part.  
Adjusting and changing the production parameters.

### Molded foam lines

Operating and adjusting molded foam plants. Becoming familiar with the special features of the plant's wet part.  
Adjusting and changing the production parameters.

### PREG lines

Operating and adjusting machines for the production of honeycomb sandwich panels. Becoming familiar with the special features of the plant's wet part. Adjusting and changing the production parameters.

### ROBOT INTEGRATION

Participants are taught the operating sequence of the standardized interface between the coupling control and the robot controller. This includes the hardware interface with the safety signals and the software interfaces with the program number transfer and the corresponding reference signals. The course provides theoretical training.

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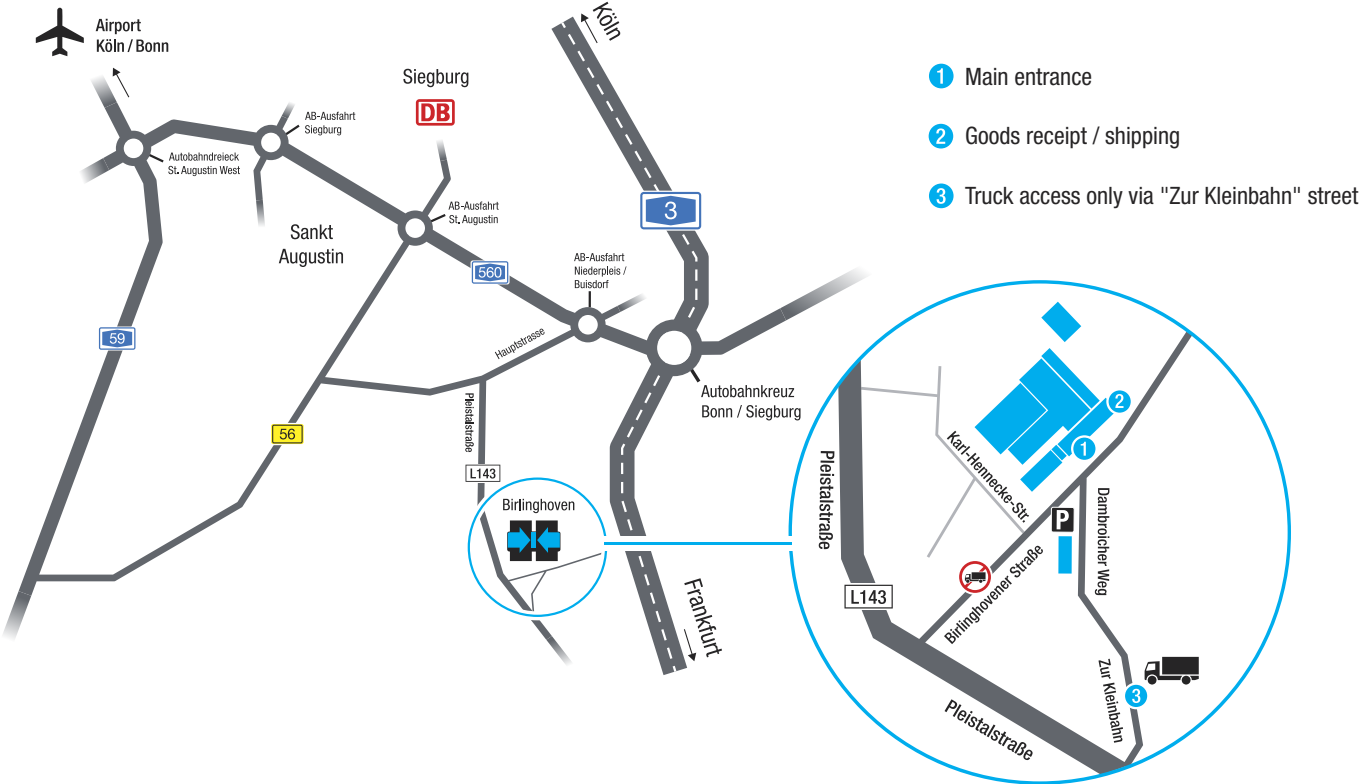
## HOTEL RECOMMENDATIONS

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<b>Gut Grossenbusch Golf Course Hotel</b> 53757 Sankt Augustin	Konrad-Adenauer-Straße 100 Phone: +49 22 41 / 39 88-0 www.gcbonn.de 4 km to Hennecke	Email: info@gcbonn.de
<b>Euro Park Hotel</b> 53773 Hennef	Reutherstr. 1 a-c Tel.: +49 22 42 / 87 60 www.euro-park-hotel.de/en/ 8 km to Hennecke	Email: info@euro-park-hotel.de
<b>Kranz Parkhotel</b> 53721 Siegburg	Mühlenstraße 32-44 Phone: +49 22 41 / 5 47-0 www.kranzparkhotel.de/en/start 9 km to Hennecke	Email: info@kranzparkhotel.de
<b>Hotel Kaiserhof</b> 53721 Siegburg	Kaiserstr. 80 Phone: +49 22 41 / 17 23-0 www.kaiserhof-siegburg.de/?lang=en 10 km to Hennecke	Email: info@kaiserhof-siegburg.de
<b>Cityhotel Oktopus</b> 53721 Siegburg	Zeithstraße 110 Phone: +49 22 41 / 8 46 40-0 www.friendly-cityhotel-siegburg.de/en/ 10 km to Hennecke	Email: info@friendly-cityhotel-siegburg.de
<b>Konzept Hotel Benedikt</b> 53731 Siegburg	Europaplatz 16 Phone: +49 22 41 / 99 99 90 www.konzepthotels.com/hotel-benedikt-siegburg 10 km to Hennecke	Email: hallo.benedikt@konzepthotels.com

# DIRECTIONS



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# APPLICATION FORM AND CONDITIONS OF PARTICIPATION

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>> It is quick and simple to register for the training courses and seminars via the 360°SERVICE portal. Just scan the QR code or click on the link.  
[service.hennecke-group.com/trainings](https://service.hennecke-group.com/trainings)

## General conditions of participation for training courses and seminars of Hennecke GmbH Page (as of: 2025)

### 1 Scope and target group

1. These conditions of participation apply to all trainings, seminars, webinars and workshops (hereinafter referred to as "courses") held by Hennecke GmbH (hereinafter referred to as "organizer").
2. The offer is intended exclusively for entrepreneurs in the sense of section 14 German Civil Code, legal entities under public law or special assets under public law (B2B business). Contracts with consumers (section 13 German Civil Code) are excluded.
3. Deviating, conflicting or supplementary general terms and conditions of the participant or the sending company will only be part of the contract to the extent that the organizer has expressly approved their validity in writing. This requirement for approval applies in any case, for example, even if the organizer provides the service to this participant without reservation, while having knowledge of the participant's general terms and conditions.

### 2 Registration and contract conclusion

1. The representations of the courses in catalogs, on the website, or in other advertising means are subject to change and are non-binding (invitatio ad offerendum).
2. The participant's registration (by email, web form, or letter) applies as a binding contractual offer.
3. The contract first enters into force when confirmed in text form (e.g. by email) by the organizer's Sales/Customer Value Service (registration confirmation). An automatic confirmation of receipt does not constitute a contract acceptance.
4. For registrations from countries outside the EU, the participant must specify their valid VAT ID number when registering.

### 3 Prices and terms of payment

1. The prices specified in the respective course description or the offer apply, plus the valid statutory value added tax.
2. The participation fee shall be due without deduction immediately after issuance of the invoice.
3. Unless stated otherwise, the fees for in-person events include the use of technical facilities at the training location, beverages during the breaks, and lunch for all-day events. Travel and accommodation costs of the participant are not included.
4. For online seminars (webinars), the fee includes participation in the live stream as well as the provision of digital documents.

### 4 Implementation of online seminars (webinars)

1. Online seminars are performed as live events via platforms such as "Microsoft Teams."
2. Technical prerequisites: The participant is responsible for providing and ensuring their own technical prerequisites (especially hardware, current browser/app, stable Internet connection, firewall settings).
3. Technical faults that lie in the participant's sphere of responsibility (e.g. unstable Internet connection, company firewall blocks Microsoft Teams) do not release the participant from their obligation to pay the participation fee.
4. Ban on recording: The participant is prohibited from recording the online seminar, in whole or in part, either by video recording or audio recording (e.g. screen capturing, audio recording).

## 5 Cancellation and non-participation

1. The participant can cancel their registration in writing or in text form (email) before the course begins. The organizer's receipt of the cancellation is decisive for meeting the deadline.
2. The following cancellation policy applies:
  - Up to 3 business days (Mon. – Fri., except for holidays at the organizer's headquarters) before the course begins: free of charge.
  - If canceled after this period (less than 3 business days before the course begins) or in the event of a no-show / no login to the course: 100% of the participation fee.
3. In any case, the participant is allowed to prove that the organizer incurred no damage or significantly less damage than the flat rate named in section 2 (e.g. due to expenses saved for catering).
4. Replacement participant: The participant is entitled to name a suitable replacement participant from the same company at any point before the course begins. In this case, no cancellation fee is incurred.

## 6 Cancellation and change of courses by the organizer

1. The organizer is entitled to cancel courses for good cause. Important reasons in particular include not enough participants (not economically viable), the speaker falling ill on short notice without the possibility to find an equivalent replacement, or force majeure.
2. The participant will be informed immediately. Payments that have already been made will be reimbursed in full. Additional claims (e.g. reimbursement of travel or accommodation costs, occupational accident) are excluded unless the organizer is guilty of intent or gross negligence.
3. The organizer reserves the right to make necessary substantive, methodological and organizational changes or deviations (e.g. changing the speaker) before and during the course, provided this does not significantly change the usefulness of the announced event for the participant.

## 7 Seminar documents, copyright and rights of use

1. All seminar documents (regardless of whether printed or digital as a PDF/download/stream) are copyright protected.
2. Right of use: The participant receives a simple, non-transferable right of use to the documents for personal use only.
3. Ban on disclosure: Reproduction, disclosure to third parties, or a company-wide distribution (e.g. posting on the intranet, forwarding the PDF to colleagues who did not participate in the course) is prohibited without the express written consent of the organizer.
4. Exclusion of the obligation to update: The seminar documents reflect the technical state of the art at the time the course was held. The organizer has no obligation to update the documents (especially digital products according to sections 327 ff. German Civil Code) after the course ends, or to adjust the documents to changed standards/legal situations. A deviation from the objective requirements for an update is hereby agreed.

## 8 Liability and notes on consultation

1. In the event of intent, gross negligence or injury to life, limb or health, the organizer is fully liable, also in line with the regulations of the Product Liability Act.
2. In the event of a slightly negligent violation of an obligation that is key to achieving the contractual purpose (cardinal obligation), the amount of the organizer's liability is limited to the damage that is foreseeable and typical for the type of business in question.
3. The organizer has no further liability. The preceding restrictions on liability also apply to the personal liability of the organizer's employees, representatives and vicarious agents.
4. Note on technical suggestions: Information and suggestions on specific technical problems or machine configurations of the participant given during the course are provided to the best of our knowledge based on the situation depicted in the course. The information and suggestions do not replace a case-by-case technical review or project planning on site. The organizer does not guarantee any level of success if suggestions such as these are implemented at the participant's business.

## 9 Confidentiality

The participant and the organizer agree to maintain confidentiality regarding all trade and business secrets made known to them as part of the course e.g. through contributions from other participants) and not to use these for competitive purposes.


## 10 Data Protection

1. The organizer processes personal participant data (name, contact data) for the purpose of processing the contract and holding the seminar (Art. 6, para. 1 (b) GDPR).
2. Participant lists (name, company) may be provided to the respective speaker for preparation and implementation. This information will not be passed on to other participants.
3. If information regarding special needs (e.g. accessibility, allergies) is provided during registration that allows conclusions to be drawn about the participant's health (Art. 9 GDPR), this data is only processed to allow for participation and based on the (implied) consent of the participant, who can revoke this consent at any time.
4. More information can be found in our data privacy policy at <https://service.hennecke-group.com/en/privacy>

## 11 Final provisions

1. The law of the Federal Republic of Germany shall apply, excluding the Convention on Contracts for the International Sale of Goods (CISG).
2. The exclusive place of jurisdiction for all disputes arising from this contract is Cologne. The organizer is also entitled to assert their claims at the participant's place of general jurisdiction.

**24H** GLOBAL FIRST-LEVEL SUPPORT

+49 2241 339 360  

**SERVICE PORTAL**

[service.hennecke-group.com](http://service.hennecke-group.com)

**CONTACT / REQUEST**

[service.hennecke-group.com/contact](http://service.hennecke-group.com/contact)

