



**360° TRAININGS**

## **Training and seminar program 2025**

2025

- » 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.

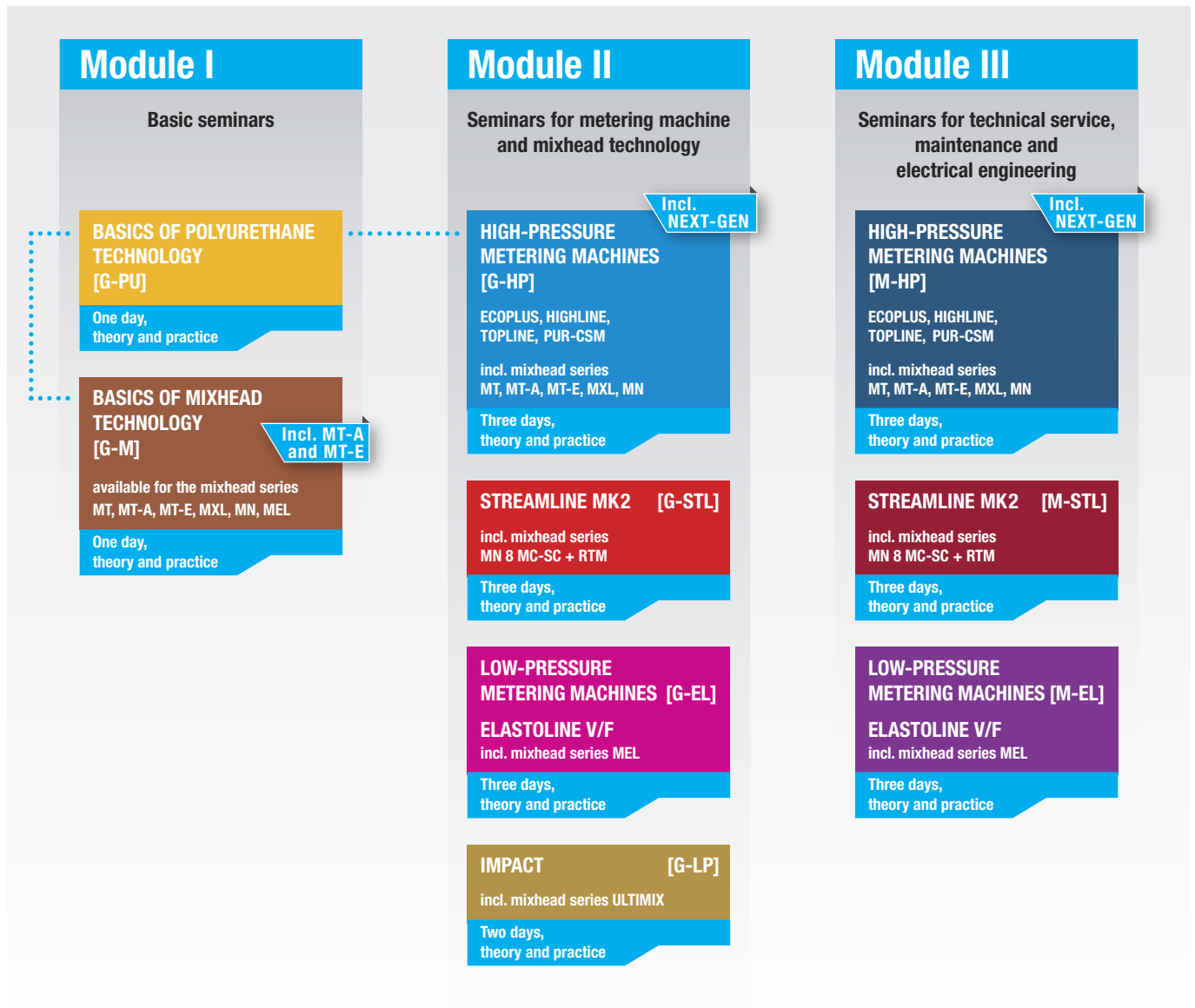
If you have any questions, we can be contacted in person at all times.



# MODULES I - V



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





## 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, FOAMWARE,  
FOAMATIC IOT

Approx. 1/2 day  
Theory

CUSTOMIZED  
ONLINE TRAINING

Upon request

Theory

Incl.  
NEXT-GEN

## 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 / LAMBDAMAT

ELASTOLINE HP

COLOURLINE

#### Plant technology

Sandwich panel lines

Technical insulation  
lines

Slabstock lines

Molded foam lines

PREG lines  
(Honeycomb  
sandwich panels)

ROBOT INTEGRATION



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



## ALL SEMINAR DATES AT A GLANCE

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



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 Tue	G-LP	1 Fri		1 Mon 36		1 Wed	G-LP	1 Sat		1 Mon 49	
2 Wed	G-LP	2 Sat		2 Tue	G-PU	2 Thu		2 Sun		2 Tue	G/M-STL
3 Thu		3 Sun		3 Wed	G-M	3 Fri		3 Mon 45	G-PU	3 Wed	G/M-STL
4 Fri		4 Mon 32		4 Thu		4 Sat		4 Tue	G/M-HP	4 Thu	G/M-STL
5 Sat		5 Tue		5 Fri		5 Sun		5 Wed	G/M-HP	5 Fri	
6 Sun		6 Wed		6 Sat		6 Mon 41		6 Thu	G/M-HP	6 Sat	
7 Mon 28		7 Thu		7 Sun		7 Tue	G/M-STL	7 Fri		7 Sun	
8 Tue		8 Fri		8 Mon 37	G-PU	8 Wed	G/M-STL	8 Sat		8 Mon 50	
9 Wed		9 Sat		9 Tue	G/M-HP	9 Thu	G/M-STL	9 Sun		9 Tue	
10 Thu		10 Sun		10 Wed	G/M-HP	10 Fri		10 Mon 46		10 Wed	
11 Fri		11 Mon 33		11 Thu	G/M-HP	11 Sat		11 Tue	W-PU	11 Thu	
12 Sat		12 Tue		12 Fri		12 Sun		12 Wed	W-M	12 Fri	
13 Sun		13 Wed		13 Sat		13 Mon 42		13 Thu	W-HMI	13 Sat	
14 Mon 29		14 Thu		14 Sun		14 Tue		14 Fri		14 Sun	
15 Tue		15 Fri		15 Mon 38		15 Wed		15 Sat		15 Mon 51	
16 Wed		16 Sat		16 Tue	W-PU	16 Thu		16 Sun		16 Tue	
17 Thu		17 Sun		17 Wed	W-M	17 Fri		17 Mon 47		17 Wed	
18 Fri		18 Mon 34		18 Thu	W-HMI	18 Sat		18 Tue	G/M-EL	18 Thu	
19 Sat		19 Tue		19 Fri		19 Sun		19 Wed	G/M-EL	19 Fri	
20 Sun		20 Wed		20 Sat		20 Mon 43		20 Thu	G/M-EL	20 Sat	
21 Mon 30		21 Thu		21 Sun		21 Tue		21 Fri		21 Sun	
22 Tue		22 Fri		22 Mon 39		22 Wed		22 Sat		22 Mon 52	
23 Wed		23 Sat		23 Tue	G/M-EL	23 Thu		23 Sun		23 Tue	
24 Thu		24 Sun		24 Wed	G/M-EL	24 Fri		24 Mon 48		24 Wed	
25 Fri		25 Mon 35		25 Thu	G/M-EL	25 Sat		25 Tue	G-LP	25 Thu	
26 Sat		26 Tue		26 Fri		26 Sun		26 Wed	G-LP	26 Fri	
27 Sun		27 Wed		27 Sat		27 Mon 44		27 Thu		27 Sat	
28 Mon 31		28 Thu		28 Sun		28 Tue	G-PU	28 Fri		28 Sun	
29 Tue		29 Fri		29 Mon 40		29 Wed	G-M	29 Sat		29 Mon 01	
30 Wed		30 Sat		30 Tue	G-LP	30 Thu		30 Sun		30 Tue	
31 Thu		31 Sun				31 Fri				31 Wed	

# BASIC SEMINARS

## 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**

## 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**

## LEARNING OBJECTIVE

After the seminar the participants will have mastered the operation and adjustment of the IMPACT low-pressure metering machine. They learn about the function and mode of operation of all assemblies and individual parts on the machine. They will be able to make production adjustments and changes to the plant parameters 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 IMPACT metering 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 ULTIMIX mixhead

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

Setting and function of the pump control

Practical system operation and handling

Adjusting all relevant process parameters

Electric, pneumatic control of the ULTIMIX mixhead

Localizing and eliminating malfunctions and errors



### Target group

Novices, machine fitters, machine operators, maintenance staff

### Number of participants

Three to six people

### Duration of seminar

Two days, 9:00 – 16:00 hrs

### Seminar fee

1300 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**

# ONLINE TRAINING

## 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**

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# CUSTOMIZED SEMINARS

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## V

### 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.

### **Sandwich panel lines**

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

### **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.

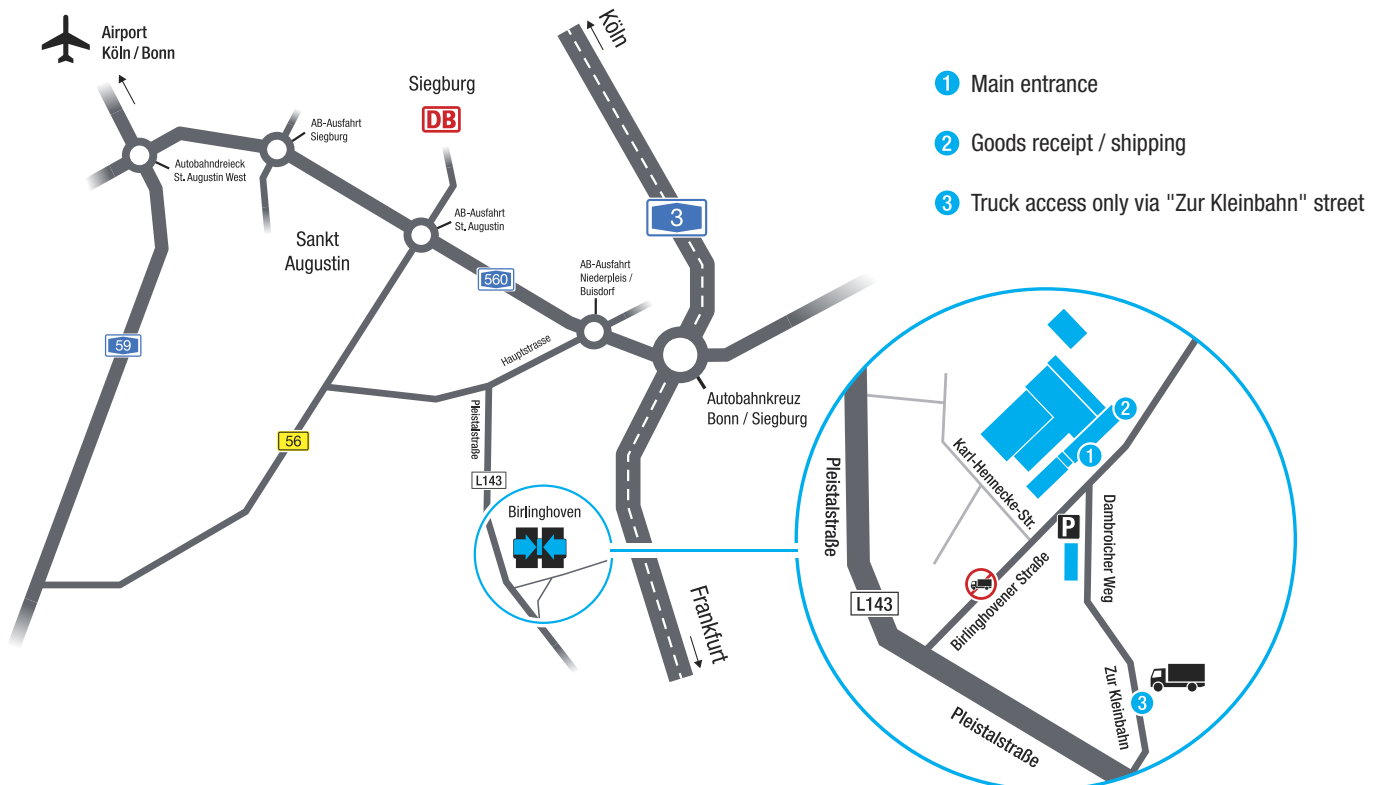
# HOTEL RECOMMENDATIONS



<b>Gut Grossenbusch Golf Course Hotel</b>  53757 Sankt Augustin	Konrad-Adenauer-Straße 100 Phone: +49 22 41 / 39 88-0      Email: <a href="mailto:info@gcbonn.de">info@gcbonn.de</a> <a href="http://www.gcbonn.de">www.gcbonn.de</a> <a href="#">Room/Night incl. breakfast from 92 euros</a>
<b>Das Augustin</b>  53757 Sankt Augustin	Uhlandstraße 8 Phone: +49 22 41 / 92 88-0      Email: <a href="mailto:info@dasaugustin.de">info@dasaugustin.de</a> <a href="https://www.dasaugustin.de/en">https://www.dasaugustin.de/en</a> <a href="#">Room/Night incl. breakfast from 74 euros - 129 euros</a>
<b>Hotel Kaiserhof</b>  53721 Siegburg	Kaiserstr. 80 Phone: +49 22 41 / 17 23-0      Email: <a href="mailto:info@kaiserhof-siegburg.de">info@kaiserhof-siegburg.de</a> <a href="http://www.kaiserhof-siegburg.de/?lang=en">www.kaiserhof-siegburg.de/?lang=en</a> <a href="#">Room/Night incl. breakfast from 95 euros - 125 euros</a>
<b>Cityhotel Oktopus</b>  53721 Siegburg	Zeithstraße 110 Phone: +49 22 41 / 8 46 40-0      Email: <a href="mailto:info@friendly-cityhotel-siegburg.de">info@friendly-cityhotel-siegburg.de</a> <a href="http://www.friendly-cityhotel-siegburg.de/en/">www.friendly-cityhotel-siegburg.de/en/</a> <a href="#">Room/Night incl. breakfast from 100 euros - 150 euros</a>
<b>Kranz Parkhotel</b>  53721 Siegburg	Mühlenstraße 32-44 Phone: +49 22 41 / 5 47-0      Email: <a href="mailto:info@kranzparkhotel.de">info@kranzparkhotel.de</a> <a href="http://www.kranzparkhotel.de/en/start">www.kranzparkhotel.de/en/start</a> <a href="#">Room/Night incl. breakfast from 139 euros - 159 euros</a>
<b>Konzept Hotel Benedikt</b>  53731 Siegburg	Europaplatz 16 Phone: +49 22 41 / 99 99 90      Email: <a href="mailto:hallo.benedikt@koncepthotels.com">hallo.benedikt@koncepthotels.com</a> <a href="http://www.koncepthotels.com/hotel-benedikt-siegburg">www.koncepthotels.com/hotel-benedikt-siegburg</a> <a href="#">Room/Night incl. breakfast from 88 euros</a>
<b>Euro Park Hotel</b>  53773 Hennef	Reutherstr. 1 a-c Tel.: +49 22 42 / 87 60      Email: <a href="mailto:info@euro-park-hotel.de">info@euro-park-hotel.de</a> <a href="http://www.euro-park-hotel.de/en/">www.euro-park-hotel.de/en/</a> <a href="#">Room/Night incl. breakfast from 79 euros - 190 euros</a>

When booking, please ask for the Hennecke corporate rate to receive the appropriate conditions.

# DIRECTIONS





# APPLICATION FORM AND CONDITIONS OF PARTICIPATION



>> 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)

## Conditions of Participation (as of 2017)

**General, scope:** Hennecke GmbH's Conditions of Participation apply to entrepreneurs (§ 14 German Civil Code), public-sector legal entities or special bodies or funds under public law (hereinafter referred to as "participants") for all of our trainings, seminars and courses etc. (hereinafter referred to as "courses"). We do not accept any terms and conditions of the participant.

**Registration:** All our offers for courses are subject to confirmation and are non-binding. The participant's registration is deemed to be a binding offer of contract. Incoming applications will be considered in chronological order until the maximum number of participants has been reached. Please let us know if participants require barrier-free access.

**Prices and services:** The participation fees as stated in the respective course description shall apply. The fees do not include the applicable VAT. The participation fee shall be due without deduction after the issuance of the invoice. The fees include all costs for instruction material, use of technical equipment, beverages during the breaks and (in case of whole-day events) a lunch in our canteen. The participant shall bear all costs for travel and accommodation. Each participant shall receive a certificate after successfully completing the course. The description of the course contents is correct at the time of printing. We reserve the right to update and enhance the agenda of the course

**Cancellation and postponement of courses:** We reserve the right to cancel, postpone or combine courses in cases of insufficient number of participants, shortfall of trainers, force majeure or any other reasons beyond our control. The participant will be informed immediately and payments already effected will be reimbursed.

**Cancellation by the participant:** After confirmation of a participant's registration by us, requests for cancellation must be made in writing. If a participant cancels more than 14 days before the course begins, we will charge 50 percent of the participation fees. We will charge 100 percent of the fees if we receive the cancellation less than 14 days before the course begins. We will not, however, charge any lump-sums for cancellations if the participant appoints a replacement for the person not being able to take part in the course. If a participant does not attend a course without giving prior notice, the full fees shall become due.

**Liability:** If we are in breach of material contractual obligations, i.e. contractual obligations the performance of which characterizes the contract and which are necessary for its proper implementation, we shall be liable in accordance with the statutory provisions. For all other breaches of duty we shall only be liable for damages caused by intentional or grossly negligent acts or omissions of our statutory representatives ("gesetzlicher Vertreter") or any persons engaged by us to assist us in complying with our obligations in terms hereof ("Erfüllungsgehilfen"). In the absence of intentional conduct, we shall be liable only for reasonably foreseeable damage that occurs. The foregoing shall neither effect the liability of the Supplier under the German Product Liability Act (Produkthaftungsgesetz), nor its liability for culpable ("schuldhaft") injury to life, body or health. If a guarantee has been assumed we shall be liable in accordance with the statutory provisions.

**Accommodation:** A list of accommodations is included in our seminar catalogue. The participant shall make a booking directly with the respective hotel.

**Information and Technical Advice:** The information and recommendations we provide (whether included in instruction materials or orally or in another form) are not binding and are made excluding all liability unless we have expressly and in writing undertaken otherwise.

**Choice of law, Court of jurisdiction:** German law shall apply. The court of jurisdiction shall be Cologne. In addition, we shall be entitled to assert our claims at the participant's place of general jurisdiction.

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**+49 2241 339 360**  

**SERVICE PORTAL**

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

**CONTACT / REQUEST**

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

