



360° TRAININGS

Training and seminar program 2024

2024

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

360° TRAININGS





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



ONLINE TRAINING

SEMINARS CONDUCTED ONLY AT THE CUSTOMER'S PREMISES

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

Incl. NEXT-GEN

CUSTOMIZED ONLINE TRAINING
 Upon request
 Theory

Module V

Customized Seminars

Special machines	Plant technology
MICROLINE	Sandwich panel lines
TOPLINE HK-MF <small>(multiple components)</small>	Technical insulation lines
TOPLINE HT <small>incl. TOPLINE HT500evo and HT30evo</small>	Slabstock lines
HK-R5000	Molded foam lines
CARBOMAT	PREG lines <small>(Honeycomb sandwich panels)</small>
AEROMAT GU / ST	ROBOT INTEGRATION
PENTAMAT / LAMB DAMAT	
ELASTOLINE HP	
COLOURLINE	



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



2024

ALL SEMINAR DATES AT A GLANCE

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



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



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

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



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



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**

CUSTOMIZED SEMINARS

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.

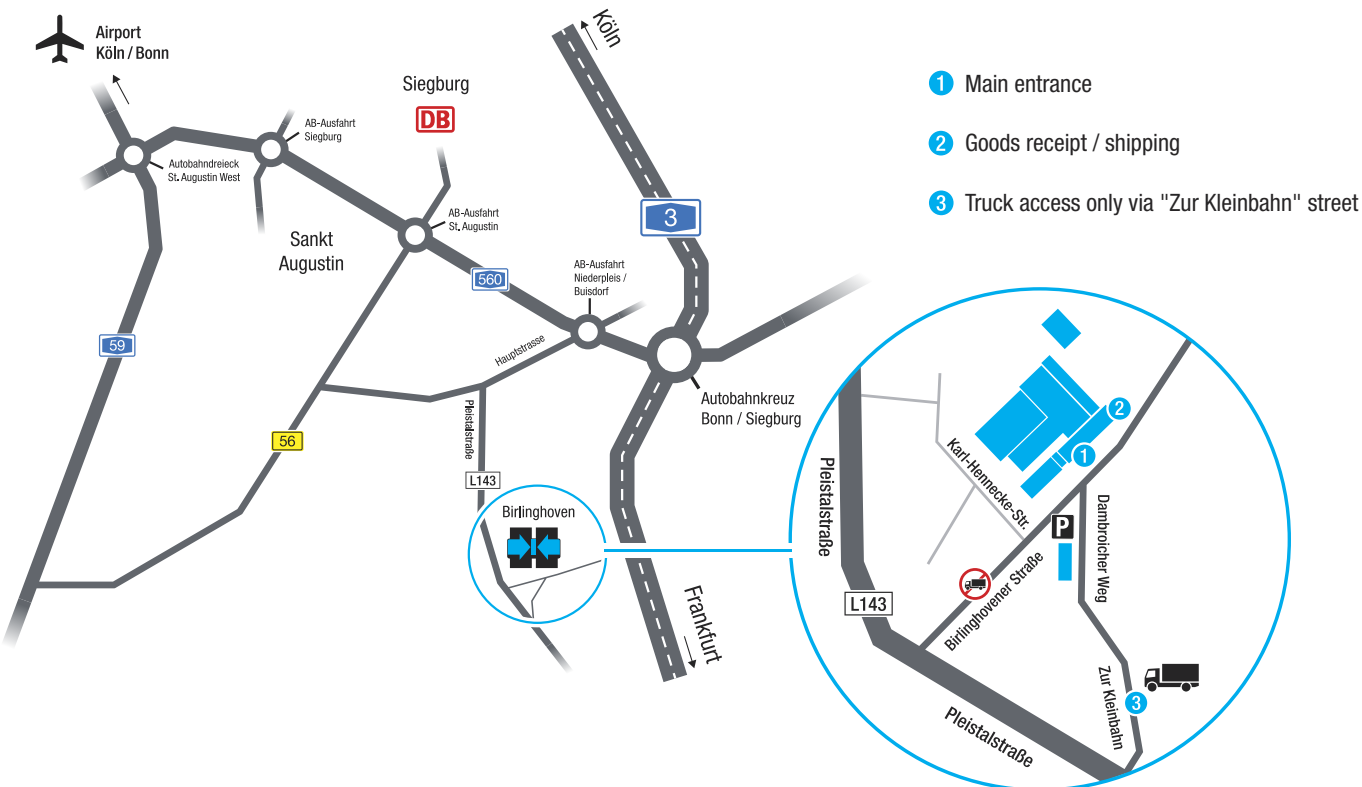
HOTEL RECOMMENDATIONS



<p>Gut Grossenbusch Golf Course Hotel</p> <p>53757 Sankt Augustin</p>	<p>Konrad-Adenauer-Straße 100 Phone: +49 22 41 / 39 88-0 Email: info@gcbonn.de www.gcbonn.de Room/Night incl. breakfast from 83 euros</p>
<p>Das Augustin</p> <p>53757 Sankt Augustin</p>	<p>Uhlandstraße 8 Phone: +49 22 41 / 92 88-0 Email: info@dasaugustin.de https://www.dasaugustin.de/en Room/Night incl. breakfast from 74 euros - 129 euros</p>
<p>Hotel Kaiserhof</p> <p>53721 Siegburg</p>	<p>Kaiserstr. 80 Phone: +49 22 41 / 17 23-0 Email: info@kaiserhof-siegburg.de www.kaiserhof-siegburg.de/?lang=en Room/Night incl. breakfast from 75 euros - 95 euros</p>
<p>Cityhotel Oktopus</p> <p>53721 Siegburg</p>	<p>Zeithstraße 110 Phone: +49 22 41 / 8 46 40-0 Email: info@friendly-cityhotel-siegburg.de www.friendly-cityhotel-siegburg.de/en/ Room/Night incl. breakfast from 115 euros - 165 euros</p>
<p>Kranz Parkhotel</p> <p>53721 Siegburg</p>	<p>Mühlenstraße 32-44 Phone: +49 22 41 / 5 47-0 Email: info@kranzparkhotel.de www.kranzparkhotel.de/en/start Room/Night incl. breakfast from 141 euros - 191 euros</p>
<p>Konzept Hotel Benedikt</p> <p>53731 Siegburg</p>	<p>Europaplatz 16 Phone: +49 22 41 / 99 99 90 Email: hallo.benedikt@koncepthotels.com www.koncepthotels.com/hotel-benedikt-siegburg Room/Night incl. breakfast from 75 euros - 110 euros</p>
<p>Euro Park Hotel</p> <p>53773 Hennef</p>	<p>Reutherstr. 1 a-c Tel.: +49 22 42 / 87 60 Email: info@euro-park-hotel.de www.euro-park-hotel.de/en/ Room/Night incl. breakfast from 76 euros - 139 euros</p>

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

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.

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.

24H GLOBAL FIRST-LEVEL SUPPORT

+49 2241 339 360  

SERVICE PORTAL

service.hennecke-group.com

CONTACT / REQUEST

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