

NEW NOW INCLUDING
ONLINE TRAINING



360° TRAININGS

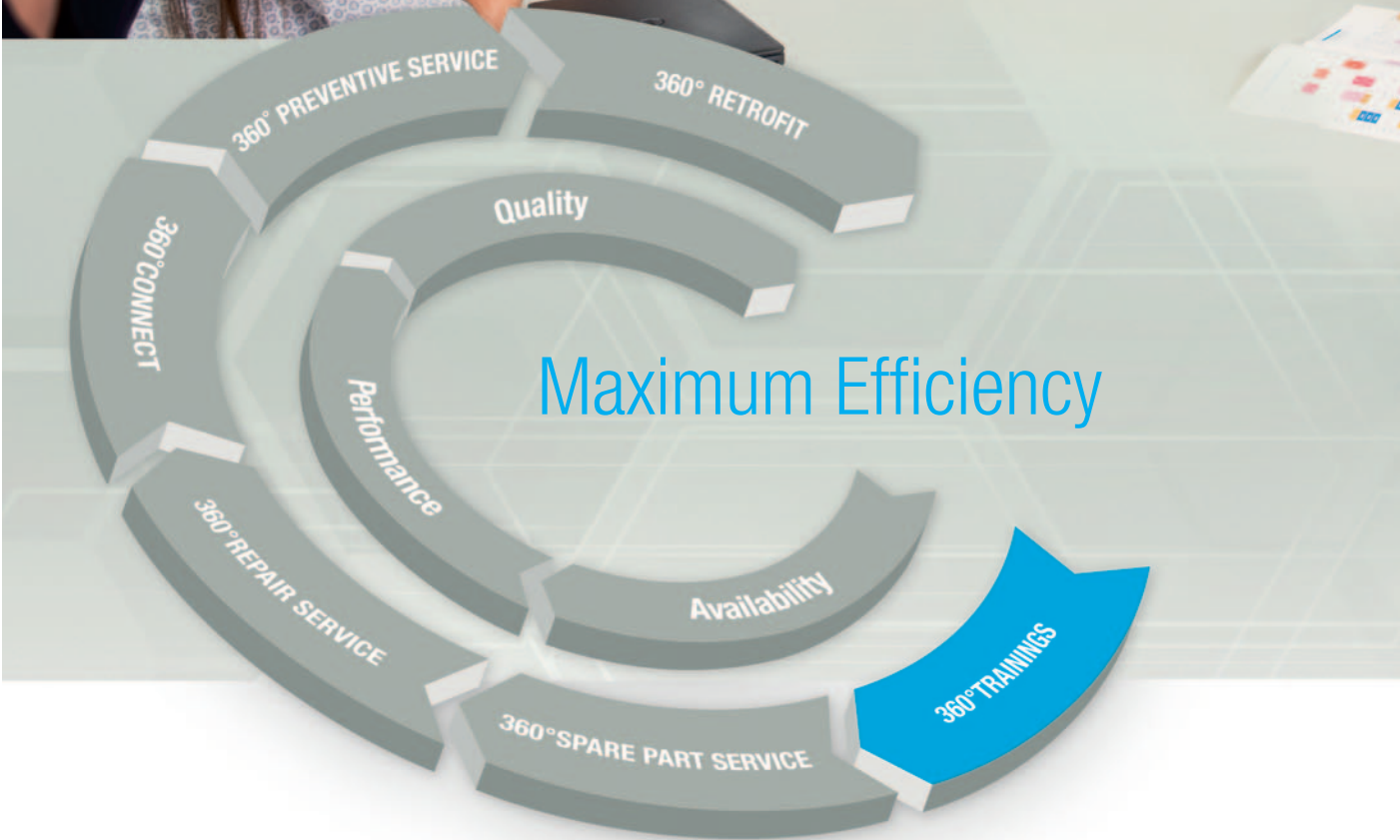
Training and seminar program 2021

2021

- » 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.
- >> This year in module group IV we are offering online training sessions for the first time. As well as three standard seminars, upon request we can provide customized online seminars. Some prior knowledge is useful here.
- >> In module group IV 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. Upon request we can also provide assistance in other languages.

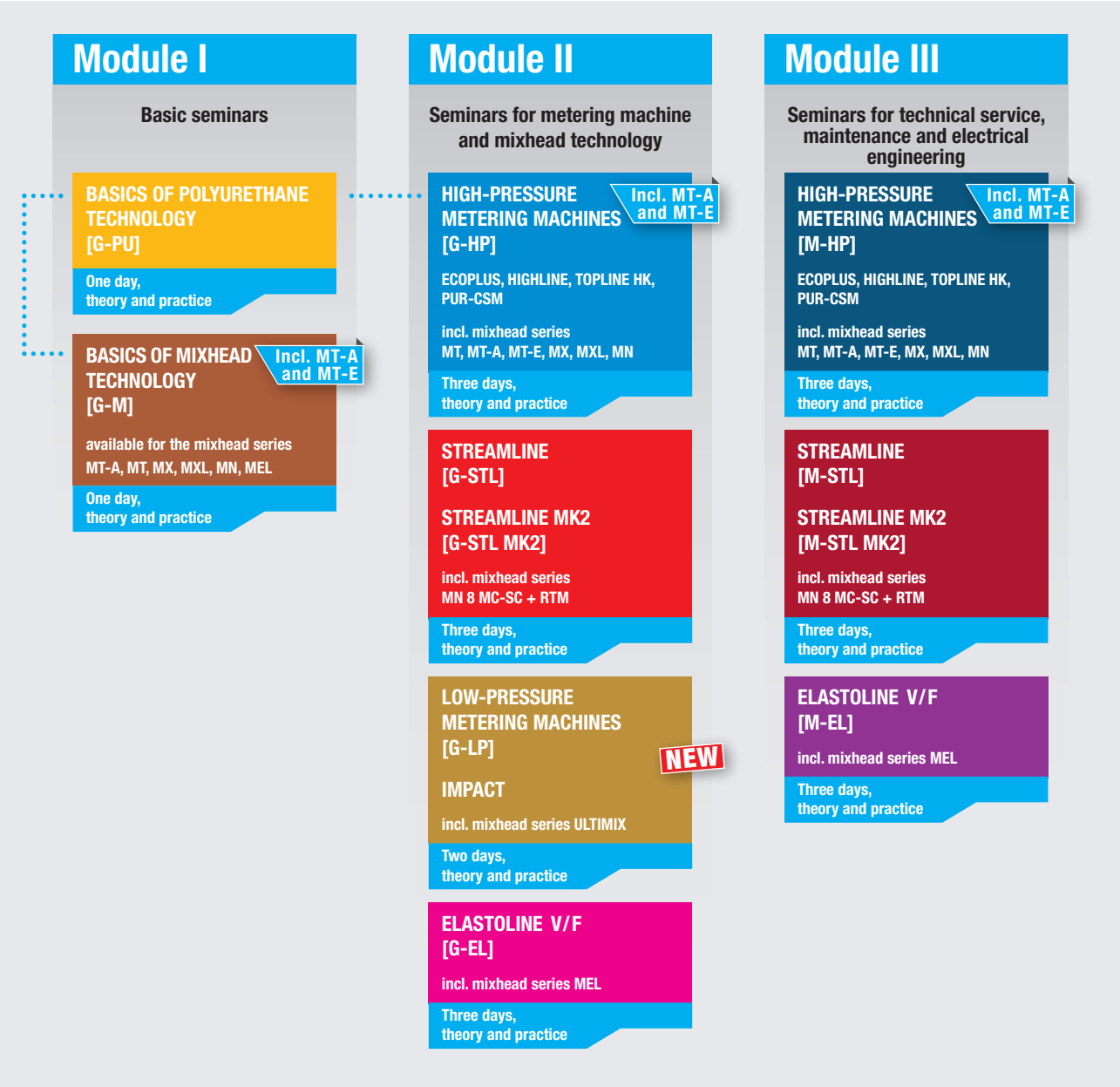
If you have any questions, we can be contacted in person at all times.



Modules I - V



Seminars conducted at the Hennecke training center or at the customer's premises





Online training

Module IV

NEW

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]

HIGHLINE, TOPLINE HK, STREAMLINE, ELASTOLINE, ECOPLUS, IMPACT

Approx. 1/2 day Theory

CUSTOMIZED ONLINE TRAINING

Upon request

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 / LAMBDAMAT

ELASTOLINE HP

COLOURLINE

Plant technology

Sandwich panel lines

Technical insulation lines

Slabstock lines

Moulded 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.

2021

All seminar dates at a glance

January	February	March	April	May	June
1 Fri	1 Mon 5	1 Mon 9	1 Thu	1 Sat	1 Tue
2 Sat	2 Tue G-PU	2 Tue G-STL G-STL MK2	2 Fri	2 Sun	2 Wed
3 Sun	3 Wed G-HP	3 Wed G-STL G-STL MK2	3 Sat	3 Mon 18	3 Thu
4 Mon	4 Thu G-HP	4 Thu G-STL G-STL MK2	4 Sun	4 Tue G-EL	4 Fri
5 Tue	5 Fri G-HP	5 Fri	5 Mon 14	5 Wed G-EL	5 Sat
6 Wed	6 Sat	6 Sat	6 Tue	6 Thu G-EL	6 Sun
7 Thu	7 Sun	7 Sun	7 Wed	7 Fri	7 Mon 23
8 Fri	8 Mon 6	8 Mon 10	8 Thu	8 Sat	8 Tue G-PU
9 Sat	9 Tue W-PU	9 Tue G-PU	9 Fri	9 Sun	9 Wed G-M
10 Sun	10 Wed W-M	10 Wed G-M	10 Sat	10 Mon 19	10 Thu
11 Mon	11 Thu W-HMI	11 Thu	11 Sun	11 Tue G-PU	11 Fri
12 Tue G-STL G-STL MK2	12 Fri	12 Fri	12 Mon 15	12 Wed G-M	12 Sat
13 Wed G-STL G-STL MK2	13 Sat	13 Sat	13 Tue W-PU	13 Thu	13 Sun
14 Thu G-STL G-STL MK2	14 Sun	14 Sun	14 Wed W-M	14 Fri	14 Mon 24
15 Fri	15 Mon 7	15 Mon G-PU	15 Thu W-HMI	15 Sat	15 Tue G-STL G-STL MK2
16 Sat	16 Tue	16 Tue G-HP	16 Fri	16 Sun	16 Wed G-STL G-STL MK2
17 Sun	17 Wed	17 Wed G-HP	17 Sat	17 Mon 20	17 Thu G-STL G-STL MK2
18 Mon G-PU	18 Thu	18 Thu G-HP	18 Sun	18 Tue W-PU	18 Fri
19 Tue G-HP	19 Fri	19 Fri G-IR	19 Mon 16	19 Wed W-M	19 Sat
20 Wed G-HP	20 Sat	20 Sat	20 Tue G-STL G-STL MK2	20 Thu W-HMI	20 Sun
21 Thu G-HP	21 Sun	21 Sun	21 Wed G-STL G-STL MK2	21 Fri	21 Mon 25
22 Fri G-IR	22 Mon 8	22 Mon 12	22 Thu G-STL G-STL MK2	22 Sat	22 Tue W-PU
23 Sat	23 Tue G-EL	23 Tue W-PU	23 Fri	23 Sun	23 Wed W-M
24 Sun	24 Wed G-EL	24 Wed W-M	24 Sat	24 Mon 21	24 Thu W-HMI
25 Mon	25 Thu G-EL	25 Thu W-HMI	25 Sun	25 Tue	25 Fri
26 Tue G-PU	26 Fri	26 Fri	26 Mon 17	26 Wed	26 Sat
27 Wed G-M	27 Sat	27 Sat	27 Tue	27 Thu	27 Sun
28 Thu	28 Sun	28 Sun	28 Wed	28 Fri	28 Mon 26
29 Fri		29 Mon 13	29 Thu	29 Sat	29 Tue
30 Sat		30 Tue	30 Fri	30 Sun	30 Wed
31 Sun		31 Wed		31 Mon 22	



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

July	August	September	October	November	December
1 Thu	1 Sun	1 Wed G-EL	1 Fri	1 Mon 44	1 Wed G-STL G-STL MK2
2 Fri	2 Mon 31	2 Thu G-EL	2 Sat	2 Tue	2 Thu G-STL G-STL MK2
3 Sat	3 Tue	3 Fri	3 Sun	3 Wed G-EL	3 Fri
4 Sun	4 Wed	4 Sat	4 Mon 40	4 Thu G-EL	4 Sat
5 Mon 27	5 Thu	5 Sun	5 Tue G-STL G-STL MK2	5 Fri G-EL	5 Sun
6 Tue	6 Fri	6 Mon 36	6 Wed G-STL G-STL MK2	6 Sat	6 Mon 49
7 Wed	7 Sat	7 Tue W-PU	7 Thu G-STL G-STL MK2	7 Sun	7 Tue W-PU
8 Thu	8 Sun	8 Wed W-M	8 Fri	8 Mon 45	8 Wed W-M
9 Fri	9 Mon 32	9 Thu W-HMI	9 Sat	9 Tue G-PU	9 Thu W-HMI
10 Sat	10 Tue	10 Fri	10 Sun	10 Wed G-M	10 Fri
11 Sun	11 Wed	11 Sat	11 Mon 41	11 Thu	11 Sat
12 Mon 28	12 Thu	12 Sun	12 Tue	12 Fri	12 Sun
13 Tue	13 Fri	13 Mon 37	13 Wed	13 Sat	13 Mon 50
14 Wed	14 Sat	14 Tue G-PU	14 Thu	14 Sun	14 Tue
15 Thu	15 Sun	15 Wed G-M	15 Fri	15 Mon 46	15 Wed
16 Fri	16 Mon 33	16 Thu	16 Sat	16 Tue G-HP	16 Thu
17 Sat	17 Tue	17 Fri	17 Sun	17 Wed G-HP	17 Fri
18 Sun	18 Wed	18 Sat	18 Mon 42	18 Thu G-HP	18 Sat
19 Mon 29	19 Thu	19 Sun	19 Tue	19 Fri G-IR	19 Sun
20 Tue	20 Fri	20 Mon 38	20 Wed	20 Sat	20 Mon 51
21 Wed	21 Sat	21 Tue G-HP	21 Thu	21 Sun	21 Tue
22 Thu	22 Sun	22 Wed G-HP	22 Fri	22 Mon 47	22 Wed
23 Fri	23 Mon 34	23 Thu G-HP	23 Sat	23 Tue W-PU	23 Thu
24 Sat	24 Tue G-STL G-STL MK2	24 Fri	24 Sun	24 Wed W-M	24 Fri
25 Sun	25 Wed G-STL G-STL MK2	25 Sat	25 Mon 43	25 Thu W-HMI	25 Sat
26 Mon 30	26 Thu G-STL G-STL MK2	26 Sun	26 Tue W-PU	26 Fri	26 Sun
27 Tue	27 Fri	27 Mon 39	27 Wed W-M	27 Sat	27 Mon 52
28 Wed	28 Sat	28 Tue	28 Thu W-HMI	28 Sun	28 Tue
29 Thu	29 Sun	29 Wed	29 Fri	29 Mon 48	29 Wed
30 Fri	30 Mon 35	30 Thu	30 Sat	30 Tue G-STL G-STL MK2	30 Thu
31 Sat	31 Tue G-EL		31 Sun		31 Fri

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 “manual” exercises
Determining the characteristic parameters during the course of the reaction
Determining the bulk density of the finished product



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

490.00 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, MX, 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, MX, MXL,
MN, MEL]

Number of participants

Three to six people

Duration of seminar

One day, 9:00 – 16:00 hrs

Seminar fee

490 euros per participant
(plus VAT)

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

Seminars for Metering Machine Operators

II

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, MX, 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 day, 9:00 – 16:00 hrs

Seminar fee

1,470 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 STREAMLINE/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 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

One day, 9:00 – 16:00 hrs

Seminar fee

1,470 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

980 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

One day, 9:00 – 16:00 hrs

Seminar fee

1,470 euros per participant (plus VAT)

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

Seminars for Technical Service and Maintenance

III

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, MX, 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 HMLs (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

One day, 9:00 – 16:00 hrs

Seminar fee

1,470 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 how to maintain and service the STREAMLINE 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 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 / G-STL MK2]

Number of participants

Three to six people

Duration of seminar

One day, 9:00 – 16:00 hrs

Seminar fee

1,470 euros per participant (plus VAT)

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

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

One day, 9:00 – 16:00 hrs

Seminar fee

1,470 euros per participant (plus VAT)

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

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

140.00 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, MX, 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, MX, MXL, MN, MEL]

Number of participants

Three to six people

Duration of seminar

About half a day,
9:00 – 12:00 hrs

Seminar fee

280 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

280 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 LAMBDAMAT

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.

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.

Moulded Foam Lines

Operating and adjusting moulded 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

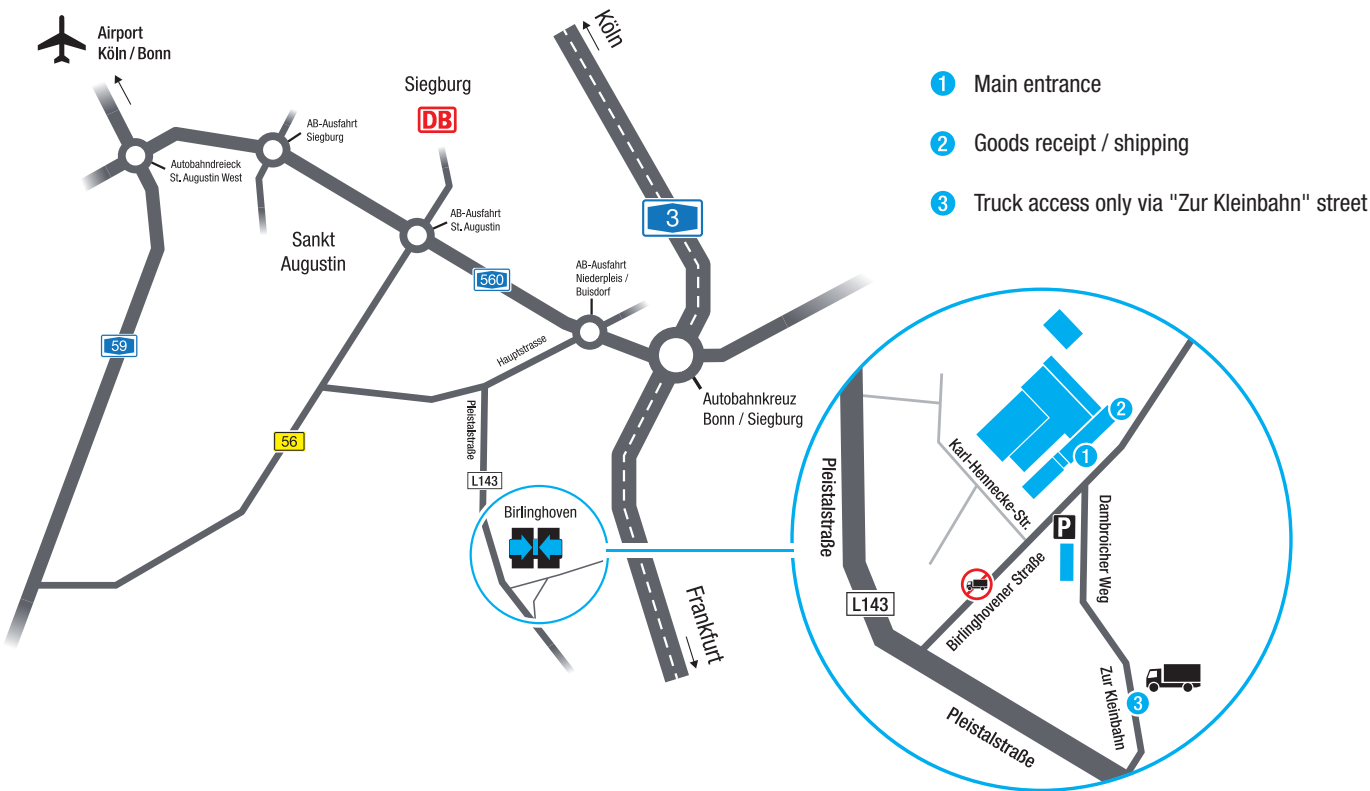
Participants are taught the operating sequence of the standardized interface between the coupling control and the robot controller. This includes the hardware interface with the safety signals and the software interfaces with the program number transfer and the corresponding reference signals. The course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

Hotel Recommendations



Konzept Hotel H20 53721 Siegburg	Europaplatz 16 Phone: +49 22 41 / 99 99 9-0 · Fax: +49 22 41 / 99 99 9-9 hallo.h2o@koncepthotels.com Room/Night incl. breakfast from 80,00 euros - 102,00 euros
Hotel Kaiserhof 53721 Siegburg	Kaiserstr. 80 Phone: +49 22 41 / 17 23-0 · Fax: +49 22 41 / 17 23-50 www.kaiserhof-siegburg.de Room/Night incl. breakfast from 70 euros - 95 euros
Gut Grossenbusch Golf Course Hotel 53757 Sankt Augustin	Konrad-Adenauer-Straße 100 Phone: +49 22 41 / 39 88-0 · Fax: +49 22 41 / 39 88 88 www.gcbonn.de Room/Night incl. breakfast from 74 euros
Euro Park Hotel 53773 Hennef	Reutherstr. 1 a-c Phone: +49 22 42 / 87 60 · Telefax: +49 22 42 / 87 61 99 www.euro-park-hotel.de Room/Night incl. breakfast from 74 euros - 89 euros
Cityhotel Oktopus 53721 Siegburg	Zeithstraße 110 Phone: +49 22 41 / 8 46 40-0 · Fax: +49 22 41 / 8 46 40-444 www.friendly-cityhotel-siegburg.de Room/Night incl. breakfast from 87 euros - 165 euros
Kranz Parkhotel 53721 Siegburg	Mühlenstraße 32-44 Phone: +49 22 41 / 5 47-0 · Fax: +49 22 41 / 5 47-444 www.kranzparkhotel.de Room/Night incl. breakfast from 107 euros - 144 euros

Directions



Conditions of Participation for training courses and seminars

(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.

Application Form for training courses

Applicant:

Company

Order number (A 0100-XXXX or P000XXX)

Address

Contact person

Tel.

Fax

E-mail

Course participant:

Name / Position

Seminar code

Date

Name / Position

Seminar code

Date

Name / Position

Seminar code

Date

Our General Conditions of Participation for Training Courses and Seminars apply (see page 24).
Please send Hennecke your application form by E-mail: service@hennecke-group.com

Place / Date

Signature / Company stamp



>> The application form can also be found online at www.hennecke.com/en/services/360/trainings

* The connection costs amount to 20 Cent per call / fax from the German fixed network or 60 Cent per call from the German cellular network. The amount charged may vary when calling from other countries.



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