Training and seminar programme 2020

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

www.hennecke.com
Maximum Efficiency
Professional and practice-oriented

The contents of the 360°TRAINING are taught in the company’s own training center in a theoretically descriptive manner and are tested and practiced through practical implementation on original machines. The modularity within the portfolio guarantees tailored instruction and further training. Special seminars complete the standard program.

Explanations of the modules

The following pages contain more information regarding the individual modules and their contents. Please note potential recommendations for participation 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 overseers. However the seminars are also recommended for applied engineering and for heads of production and maintenance in addition.

▶ 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 also 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.
Seminars for technical service, maintenance and electrical engineering

Seminars for metering machine and mixhead technology

Basic seminars

**Module I**
- **Basics of Polyurethane Technology (G-PU)**
  - One day, theory and practice

**Module II**
- **Basics of Mixhead Technology (G-M)**
  - One day, theory and practice
  - **High-Pressure Metering Machines (G-HP)**
    - Incl. mixhead series MT-A, HT, STL, HTL, ML
    - Three days, theory and practice
  - **Streamline (G-STL)**
    - Incl. mixhead series ML, MC, SC + STM
    - Three days, theory and practice
  - **Elastoline V/F (G-EL)**
    - Incl. mixhead series ML
    - Three days, theory and practice
  - **Robot Integration (G-IR)**
    - One day, theory

**Module III**
- **High-Pressure Metering Machines (M-HP)**
  - Incl. mixhead series MT-A, HT, STL, ML
  - Three days, theory and practice
  - **Streamline (M-STL)**
    - Incl. mixhead series ML, MC, SC + STM
    - Three days, theory and practice
  - **Elastoline V/F (M-EL)**
    - Incl. mixhead series ML
    - Three days, theory and practice

**Module IV**
- **Customized Seminars**
  - **Special Machines**
    - **Microline**
    - **Topline HK-MP**
    - **Topline HT**
  - **Plant Technology**
    - **Sandwich Panel Lines**
    - **Technical Insulation Lines**
    - **Slabstock Lines**
    - **Moulded Foam Lines**
    - **PREG Lines (Sandwich Honeycomb Elements)**

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

The stated seminar fees refer to the training sessions in the Hennecke training center. You can obtain the seminar fees for on-site training sessions upon request.
# All seminar dates at a glance

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

Learning objective:

The participants shall gain basic knowledge of polyurethane chemistry. They shall become familiar with the composition and behavior of the components during the chemical reaction. In addition, the seminar shall impart useful information relating to safe utilization of chemicals and correct storage of raw materials.

Seminar contents:

- Basics of polyurethane raw materials
- Products manufactured from polyurethane
- Hazards and how to avoid them in the processing of 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 participant 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:

<table>
<thead>
<tr>
<th>Functional principle and configuration of the mixhead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection and replacement of the nozzle</td>
</tr>
<tr>
<td>- Conventional and balanced-pressure nozzle (series MT, MT-A, MX, MXL)</td>
</tr>
<tr>
<td>- Hydraulically controlled nozzle (series MQ)</td>
</tr>
<tr>
<td>Adjusting the foaming pressure</td>
</tr>
<tr>
<td>Throttling the mixing chamber</td>
</tr>
<tr>
<td>Electric, hydraulic and pneumatic (series MXL)</td>
</tr>
<tr>
<td>Control of the mixhead</td>
</tr>
<tr>
<td>Troubleshooting and rectification</td>
</tr>
<tr>
<td>Maintenance and practical instruction on mixhead</td>
</tr>
<tr>
<td>- Changing seals on ejector and nozzles</td>
</tr>
<tr>
<td>- Replacing and adjusting the proximity switch in the mixhead</td>
</tr>
</tbody>
</table>

Target group
Novices, machine fitters, machine operators, maintenance staff

Each seminar relates to one mixhead series
[MT, MT-A, 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 the functioning principle and adjustment of the pumps, mixhead and nozzles are performed and explained. 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
- Functional principle and structure of metering pumps
- Functional principle and configuration of the mixhead series MT-A, MT, 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, nozzle selection and nozzle 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

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 high-pressure metering machine STREAMLINE/STREAMLINE MK2. You can name the components used and know their function and mode of operation. Production adjustments and changes to the plant parameters can be performed independently and effectively. In addition, the participants shall be able to localize errors that occur on the machine and mixhead and rectify them (error simulation).

Seminar contents:

- Structure 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
- Functional principle and structure of metering pumps
- Functional 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, nozzle selection and nozzle 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

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 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 a process-oriented way. 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
- Functional principle and structure of metering pumps
- Functional 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**

1,470 euros per participant (plus VAT)

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

The participants are taught the operating sequence of the standardized interface between the coupling control and the robot controller (make ABB or FANUC). This includes the hardware interface with the safety signals and the software interfaces with the program number transfer and the corresponding reference signals. This training offer consists of theoretical training.

Seminar contents:

<table>
<thead>
<tr>
<th>Structure of the PLC program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure of the robot program</td>
</tr>
<tr>
<td><strong>Hardware interface</strong></td>
</tr>
<tr>
<td>- System signals</td>
</tr>
<tr>
<td>- Safety signals</td>
</tr>
<tr>
<td><strong>Software interface</strong></td>
</tr>
<tr>
<td>- Signal exchange</td>
</tr>
<tr>
<td>- Program number transfer</td>
</tr>
</tbody>
</table>

Target group

Programmers (PLC knowledge and knowledge of robots required)

Participation in the seminar [G-HP] is recommended

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
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 (agitator, metering pump, high/low pressure switchover)
- Checking the nozzles and carrying out maintenance work
- Providing instruction in the necessary maintenance work on the mixhead series MT-A, MT, MX, MXL
- Troubleshooting and eliminating these 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

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 STREAMLINE series 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 nozzles and carrying out maintenance work
- Providing instruction in the necessary maintenance work on the mixhead
- Troubleshooting and eliminating these errors
- Handling the lubrication and maintenance plan of the machine
- Structural layout of circuit diagrams
- Performing restores and backups on HMI (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

Three days, 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 low-pressure metering machines from the ELASTOLINE F and ELASTOLINE V series. 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 nozzles and carrying out maintenance work
- Performing maintenance work on the MEL type agitator mixhead
- Troubleshooting and eliminating these 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

1,470 euros per participant (plus VAT)

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

### SPECIAL MACHINES

Additional special seminars and special topics are possible.
The prerequisites for customer-specific seminars are available on request.

<table>
<thead>
<tr>
<th>MACHINE Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MICROLINE</strong></td>
<td>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 nozzles / mixhead.</td>
</tr>
<tr>
<td><strong>TOPLINE HK-MF</strong> (multiple components)</td>
<td>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 nozzles / mixhead.</td>
</tr>
<tr>
<td><strong>TOPLINE HT / TOPLINE HTS00evo / HT30evo</strong></td>
<td>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 nozzles / mixhead. Each seminar focuses on one HT machine system.</td>
</tr>
<tr>
<td><strong>HK-R 5000</strong></td>
<td>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 agitator mixhead and the tandem metering pumps.</td>
</tr>
<tr>
<td><strong>CARBOMAT</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>AEROMAT GU / ST</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>PENTAMAT 30i / 50i</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
**PLANT TECHNOLOGY**

Additional special seminars and special topics are possible. The prerequisites for customer-specific seminars are available on request.

### 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 slabstock 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 sandwich honeycomb elements. Becoming familiar with the special features of the plant’s wet part. Adjusting and changing the production parameters.
## Hotel Recommendations

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Website</th>
<th>Room/Night incl. breakfast</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hotel Herting</strong></td>
<td>Europaplatz 16</td>
<td>+49 22 41 / 99 99 9-9</td>
<td>+49 22 41 / 99 99 9-9</td>
<td><a href="http://hotel-herting.de">hotel-herting.de</a></td>
<td>80,00 euros - 102,00 euros</td>
</tr>
<tr>
<td><strong>Hotel Kaiserhof</strong></td>
<td>Kaiserstr. 80</td>
<td>+49 22 41 / 17 23-0</td>
<td>+49 22 41 / 17 23-50</td>
<td><a href="http://kaiserhof-siegburg.de">kaiserhof-siegburg.de</a></td>
<td>70 euros - 95 euros</td>
</tr>
<tr>
<td><strong>Gut Grossenbusch Golf Course Hotel</strong></td>
<td>Konrad-Adenauer-Straße 100</td>
<td>+49 22 41 / 39 88-0</td>
<td>+49 22 41 / 39 88 88</td>
<td><a href="http://gcbonn.de">gcbonn.de</a></td>
<td>74 euros</td>
</tr>
<tr>
<td><strong>Euro Park Hotel</strong></td>
<td>Reutherstr. 1 a-c</td>
<td>+49 22 42 / 87 60</td>
<td>+49 22 42 / 87 61 99</td>
<td><a href="http://euro-park-hotel.de">euro-park-hotel.de</a></td>
<td>74 euros</td>
</tr>
<tr>
<td><strong>Cityhotel Oktopus</strong></td>
<td>Zeithstraße 110</td>
<td>+49 22 41 / 8 46 40-0</td>
<td>+49 22 41 / 8 46 40-44</td>
<td><a href="http://friendly-cityhotel-siegburg.de">friendly-cityhotel-siegburg.de</a></td>
<td>87 euros - 165 euros</td>
</tr>
<tr>
<td><strong>Kranz Parkhotel</strong></td>
<td>Mühlenstraße 32-44</td>
<td>+49 22 41 / 5 47-0</td>
<td>+49 22 41 / 5 47-444</td>
<td><a href="http://kranzparkhotel.de">kranzparkhotel.de</a></td>
<td>107 euros - 144 euros</td>
</tr>
</tbody>
</table>
Directions

1. Main entrance
2. Goods Inwards / Shipping
3. Truck access only via "Zur Kleinbahn" street
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 seminar 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 course description complies with the state 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 the Supplier shall be liable in accordance with the statutory provisions.

Accommodation
A list of accommodations is included in our seminar catalogue. If a participant needs a room, he will book a room directly with the respective hotel.

Information and Technical Advice
Information and recommendations provided by the Supplier (whether included in instruction materials or orally) are not binding and are made excluding all liability unless the Supplier has 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:

<table>
<thead>
<tr>
<th>Company</th>
<th>Order number</th>
<th>Address</th>
<th>Contact person</th>
<th>Tel.</th>
<th>Fax</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

## Course participant:

<table>
<thead>
<tr>
<th>Name/Position</th>
<th>Seminar code</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

## Our general participation conditions for training courses and seminars apply (see page 21).

Please send Hennecke your application form:
- By fax + 49 1806 / 339 201*     - By E-mail service@hennecke.com

<table>
<thead>
<tr>
<th>Place/Date</th>
<th>Signature/Company stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>
Notes
Contact our service experts directly to find out more about our 360° TRAININGS – by e-mail or phone. We’ll be happy to hear from you!

360° SERVICE

Hotline + 49 1806 339-200¹
Technical Service Support + 49 2241 / 339-360

Internet www.hennecke.com/360
Email service@hennecke.com
Fax + 49 1806 / 339-201

¹ The connection costs amount to 20 Cent per call/acid 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.
² The technical service support team can be reached on business days from 7 a.m. to 5 p.m. German time. Additional call charges from your telecommunications provider may be incurred.