

Training 2018

Professionally getting into technology made by Jetter

We automate your success.

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Dear user,

Applying the Jetter technology in automation opens up a world of new possibilities: Handling motion systems in the programming environment directly, programming digital inputs/outputs and path control by means of one and the same language, vertical integration, using the controller as Web server and much more.

Jetter AG offers you numerous seminars for getting acquainted with these captivating topics. In addition to these in-house training courses, we offer an entire range of flexible and individual training options. The principle in this case: You determine the location, time, duration and content. Our consultants are happy to design a customized training plan for you.

As many previous participants, you will find that using your abilities and our products after the training has still become more efficient.

Jetter technology offers a great number of additional possibilities and features which by far exceed "normal" programming and make life more comfortable. Why do without them?

Welcome to Ludwigsburg!

Michael Feider
VP Sales and Marketing



Servicing JetSym

Contents

- Preparation: Setting up your own computer, making settings in JetSym Hardware Manager.
- Servicing an existing system: Program and data backup
- Comparing programs: Comparing JetSym with a JetControl
- Fault finding, error LED at a JetControl
- The use of the JetSym setup window
- Addressing JetMove axes, inputs and outputs
- Initial commissioning: Uploading data, JetMove parameter files and program
- Servicing JetMove axes by means of Motion Setup
- Recording data (JetMove axes AND JetControl) by means of the JetSym oscilloscope

Target group

- Field and commissioning engineers who themselves do not program

Training period

- 2 days

Dates

- Wed 21.03.2018 to Thu 22.03.2018
- Wed 11.07.2018 to Thu 12.07.2018
- Wed 14.11.2018 to Thu 15.11.2018

Prerequisites

- Experience in using the PC applying Windows

Price

- 700 EUR

For general conditions, please turn to page 14



Description

We take the perspective of a field engineer working on a plant which is equipped with a JetControl. These are the questions we have to solve, for example: Which steps do we have to take BEFORE connecting our PC just like that with the Ethernet switch of a plant? The settings should already exist in the JetSym Hardware Manager, so that no more changes have to be made. The following situation often occurs in practice: Several JetControls are networked within one plant. This made us connect with the wrong JetControl due to selecting the wrong IP address. That's why it is important to compare the program in JetSym with the program in JetControl in the first instance.

The next step is to deal with program and data backup, which is likely to be neglected, which would then have serious consequences. Usually, an error LED lights up in case of failure: What must be done to reliably troubleshoot and fix errors? In this case, the JetSym setup window is very helpful, because it lets us represent the data of a JetControl in a table.

Further topics to be dealt with in the seminar: Automatically addressing JetMove axes, inputs and outputs, initial commissioning Settings in the JetSym Hardware Manager of the Motion Setup: Commissioning a JetMove axis Axis tuning by means of the JetSym oscilloscope.

In this training course, not a single line of a program will be written. We are very careful to be familiar with each step in performing the tasks of a classic field engineer.

Programming JetSym

High-level language to IEC 61131-3

Contents

- Task: Commissioning a training model
- The operating principle of a multitasking operating system
- Programming basics
 - Commands
 - Hardware Manager
 - ...
- Simple I/O programming
- Axis commissioning by Motion Setup
- Axis programming by Motion instructions
- Creating one's own functions
- Working with character string commands
- Creating a logbook in the file system of the PLC comprising the file operations

Target group

- Programmers and developers

Training period

- 4 days

Dates

- Mon 12.03.2018 to Thu 15.03.2018
- Mon 14.05.2018 to Thu 17.05.2018
- Mon 02.07.2018 to Thu 05.07.2018
- Mon 10.09.2018 to Thu 13.09.2018
- Mon 05.11.2018 to Thu 08.11.2018

Prerequisites

- Basic knowledge in automation and programming

Price

- 1400 EUR
For general conditions, please turn to page 14



Description

The task is as follows: Commissioning a training model. We start by creating a flowchart, which means, we first of all give some thought to the design of our program. After getting some theoretical knowledge and coming to know some basic instructions, we will immediately turn to hands-on programming. Are you still with me? If not, it's no problem - the online help of the programming tool JetSym has got answers to almost any question you might have. Just press F1. Your trainer will still back you up and will gladly answer your questions.

After a short time only, we will turn to commissioning a JetMove axis and come to the conclusion that axis commissioning by STX is child's play. Then, we will integrate the JetMove axis into our application by means of Motion API (Application Programming Interface). This makes any other programming tool unnecessary.

Now, we are going to do commissioning on a higher level by using character string instructions which are an integral feature of the powerful programming language STX. Finally, we will create a logbook in the file system of our JetControl. For this, we apply file operations which let you freely operate in the file system of our JetControl.

The objective of this training is to enable the participants to program a JetControl by themselves and to commission it successfully.

Drive Technology - Basics & Technological Functions

Contents

- Drive technology basics
- Commissioning of axes by means of Motion Setup
- JetMove - More than point-to-point

Target Group

- Commissioning engineers who want to get acquainted with the subject of drive technology

Duration

- 2 days

Date

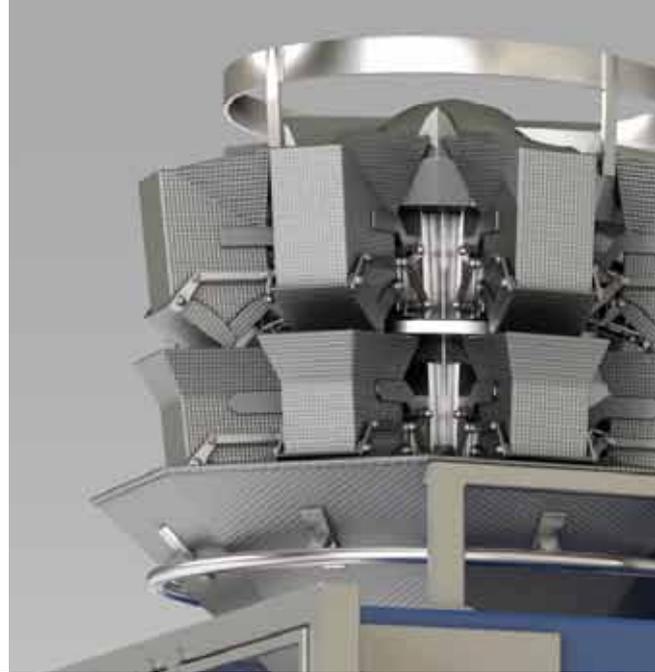
- Wed 19.09.2018 to Thu 20.09.2018

Prerequisites

- A good knowledge of the STX language

Price

- 700 EUR
For general conditions, please turn to page 14



Description

Today, point to point positioning is a must in the area of servo amplifiers. Further functions which are integrated into the operating system of the servo amplifier are nice to have:

- Position capture mode: The actual axis position is quickly acquired
- Leading-following operation: The axes are traversing synchronously
- Electronic gearing: A gearbox factor is specified as a floating point number
- Table mode: An axis travels along a set profile
- Referencing „on the fly“ Correction of the actual position of an axis on the basis of a hardware signal

It is very convenient for the commissioning engineer to operate by a familiar programming interface instead of having to handle an extra axis programming software. This has come true by combining the programming language STX, a controller of the JetControl family and a JetMove. Even programming servo amplifiers with Motion API (Application Programming Interface), which supports instructions such as MotionLoadParameter or MotionHome, is no problem for STX. Correct axis commissioning is increasingly important for moving the axis at a hundred per cent performance. Of course - because nobody wants to waste good performance potential being worth quite some money. Here, we are supported by Motion Setup. It is integrated in the STX environment. By means of a vertical axis permanently installed in the training room, we will together commission an axis step by step.



Visualization with JetViewSoft



Contents

- Visualization
- Alarm handling
- Data management
- Database access

Target group

Users of Jetter JetView devices

Training period

- 2 days

Date

- On request

Prerequisites

- The participants must be experienced PC users.

Price

- 700 EUR

For general conditions, please turn to page 14



Description

JetViewSoft is a SCADA system for visualization on Jetter HMIs.

The visualization is created with JetView embedded runtime. Features such as the Grid object (rendering data in a table) and the XY graph (graphic data rendering) are just two examples from the extensive range of JetView, Embedded Runtime.

A great advantage is the possibility to transport variables from JetSym to JetViewSoft using the JetTagDBManager. Why should programmers have to type again all the data which they have already created in the programming environment?

Entire data sets (character string, integer or floating point variables) are to be transmitted from the controller to the visualization tool. No problem - you can create variables for data sets of a set size. This way, creating hundreds of individual variables is not necessary any more.

The outstanding feature of JetView Embedded Runtime is the possibility to create one mother object and any number of child objects. If any properties of the mother object change, the same properties, for example background color, font, text size, etc., will automatically change for all child objects.

Anfahrt

Travelling by bus and train

For information on travelling by bus and train, please turn to www.bahn.de. The bus stops closest to Jetter AG are Neckarweihingen Lechtstrasse or Neckarweihingen Otto-Hahn-Strasse.

Travelling by plane

www.flughafen-stuttgart.de

Travelling by car

Enter this address into your satnav:

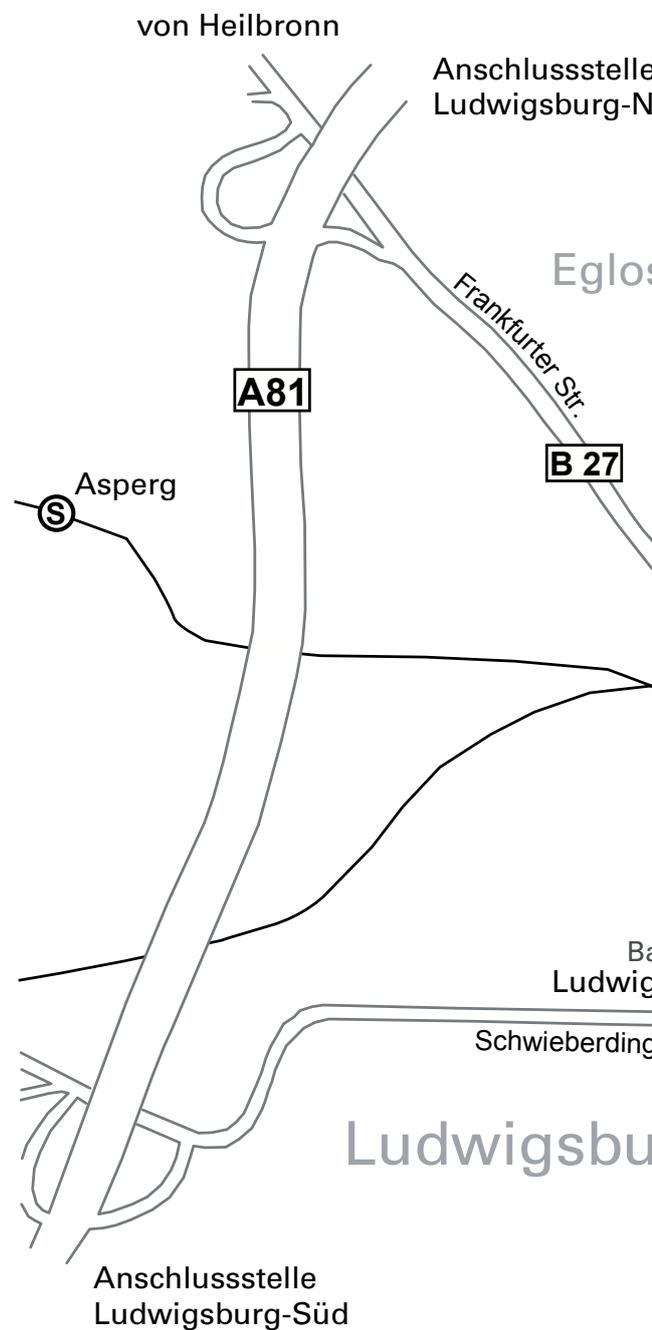
- **Event location Jetter AG**
Graeterstrasse 2
71642 Ludwigsburg

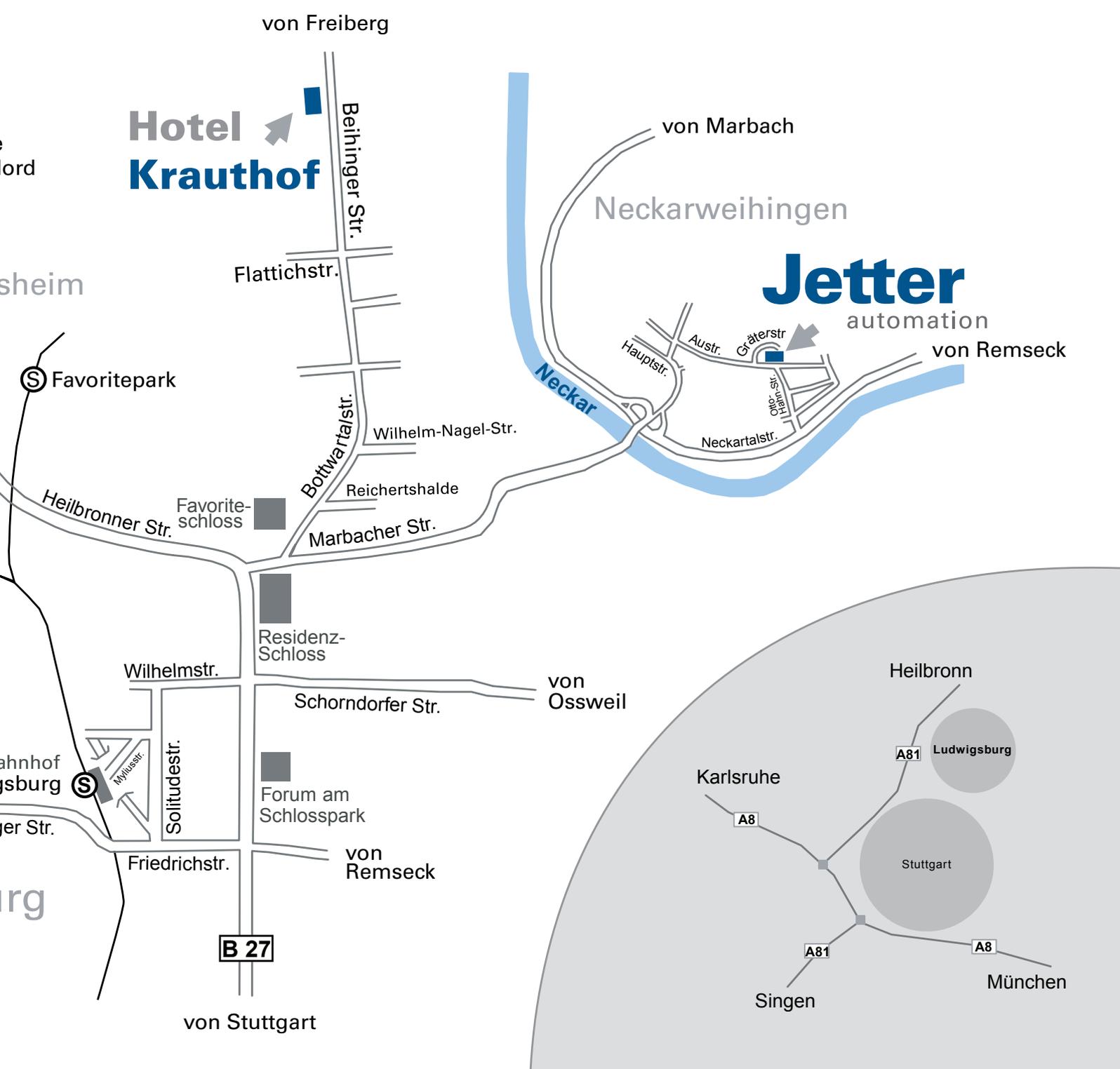
Both parking facilities and the main entrance are in Austraße 57.

- **Event location hotel Krauthof**
Beihinger Strasse 27
71642 Ludwigsburg

Note:

Ludwigsburg is considered "environmental green zone". Vehicles without environmental badge may not pass through there. This badge is available from TÜV, your garage or some filling stations.





Registration

Please use the application form provided at www.jetter.de, or send the application form taken from this flyer by fax to the following number: +49 7141 2550-484

Contact person

Should you have any questions or problems, please contact our sales team:

Ms Marion Hauser
Phone: +49 7141 2550-433
Fax: +49 7141 2550-484
E-mail: mhauser@jetter.de

General conditions

- The seminars start at 9 a.m. and end at approximately 5 p.m. They include two short coffee breaks and a one-hour lunch break.
- For all seminars, the number of participants will be limited, in order to safeguard maximum efficiency at the hands-on training units.
- We keep the right of cancelling seminars, if the minimum number of participants has not been reached.
- There will be no claim for compensation, if the seminar has got to be canceled due to absence or illness of the trainer. In this case, we will try to find an alternate date.
- Seminar documents, lunch and seminar drinks are included in the fees.

Registration

Fax +49 7141 2550-484

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Programming JetSym

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- Mon 16.07.2018 to Thu 19.07.2018
- Mon 10.09.2018 to Thu 13.09.2018
- Mon 05.11.2018 to Thu 08.11.2018

Drive Technology - Basics & Technological Functions

- Wed 19.09.2018 to Thu 20.09.2018

Name: _____

First Name: _____

Company: _____

Department: _____

Street: _____

ZIP code: _____

Location: _____

Phone: _____

Telefax: _____

E-mail: _____

Please book for me as follows:

- Guesthouse Kleinle-Bühler, Ludwigsburg-Poppenweiler | 44 EUR per night including breakfast; cash only
- Hotel Krauthof, Ludwigsburg-Hoheneck | 65 EUR per night including breakfast; old building
- Hotel Krauthof, Ludwigsburg-Hoheneck | 75 EUR per night including breakfast; new building, non-smoking

from: _____

to: _____

total: _____

nights _____

Accommodation fees must be met by the participant, as well as the service charge at canceling by the participant.

Date, Signature, Company Stamp

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We automate your success.