



## Professional Services

Allround Services for your Automation

We automate your success.

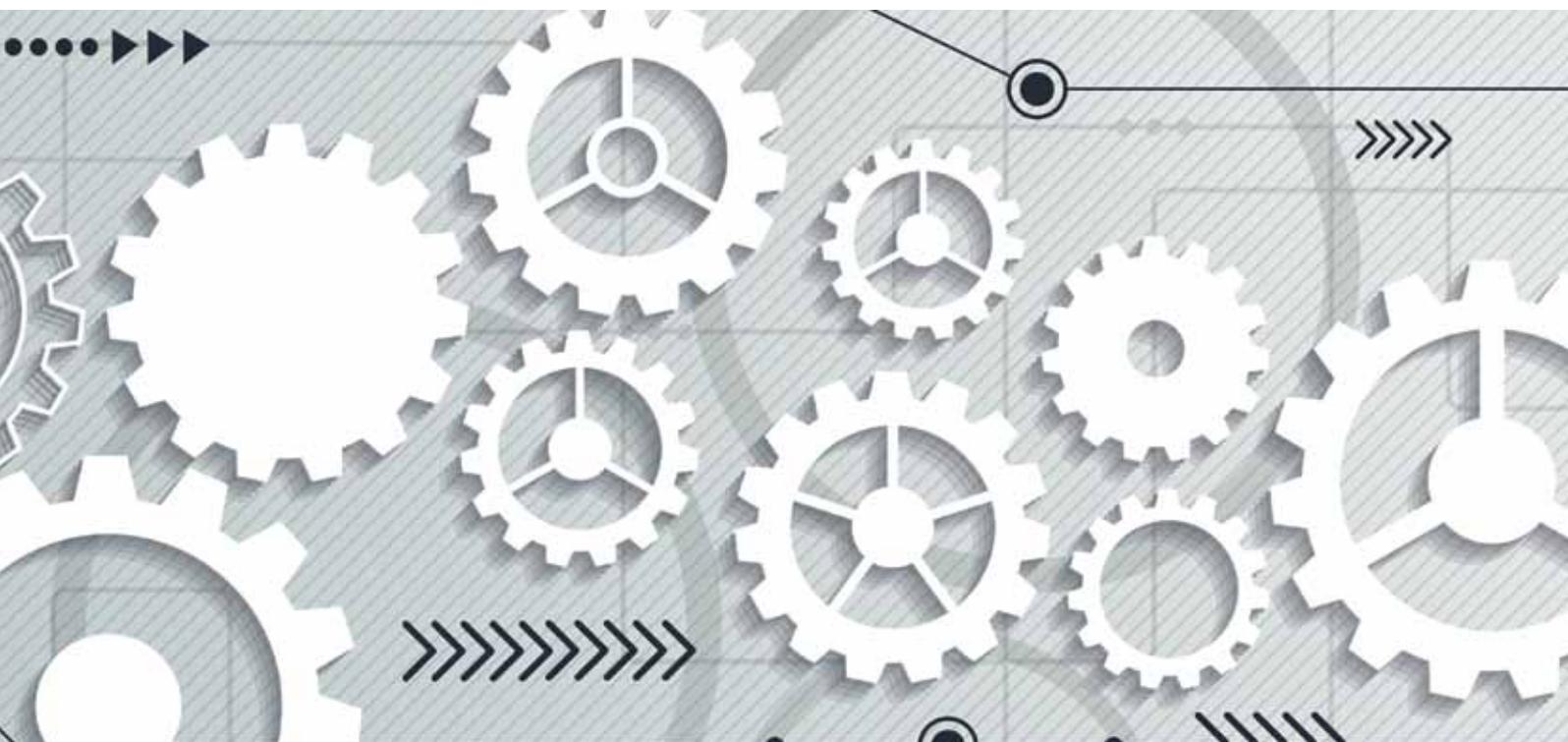
# Professional Services at a Glance

The 360° service package for automation technology



Thanks to their comprehensive range, Professional Services by Jetter AG allow us to consider and handle all aspects of complex tasks in mobile and industrial automation. The combination of expertise gained in different areas of automation opens up new approaches to continuously optimizing your plants, machines and applications. At each stage of project planning and implementa-

tion the required know-how is available - to the benefit of our customers right from the beginning. Professional Services are available not only for specific assignments, but also for all phases of project execution.



### The Services at a Glance:

- Consulting and project management - Focused on your project
- Controller programming services - Up and running
- Visualization - Usability which is worth to be seen
- Control cabinet production | Electrical engineering –The basis of outstanding productivity
- Service | Maintenance – Always ready, always available on site
- Retrofit – New impetus for proven systems
- Training – Always staying up-to-date
- Internet of Things – Secure transfer of data to the cloud and back

# Consulting | Management

Your project in focus



The success of project planning depends on many factors. From the very start, our experts will work with you to identify which system, which partial or complete solution with which components, best suits your needs - also from an economic point of view. The project management process covers all stages of development and ensures transparent and safe procedures at all times.

### Our services at a glance:

- End-to-end project management
- Use of standard project management software
- Concept development, engineering and design
- Path, movement and energy optimization
- Creating a safety concept: Selecting safety components
- Selecting sensors, actuators and motors, as well as suitable automation components
- Procuring all necessary components

### The benefits to you:

- Support from qualified and experienced project managers
- Your ideas are realized based on optimized and coordinated automation concepts
- Decades of expertise in the area of automation
- Transparent and efficient processes
- Minimal internal resource commitment

```

27 IProcessErrorData: interface
28 //
29 #pragma intellisense(off)
30
31     function GetPending(): bool;
32     function GetData(): TProcessErrorData;
33
34 #pragma intellisense(on)
35
36     function Reset();
37     function Format(Number: int, Param1: int := 0, Param2: int := 0): TProcessErrorData

```

# Controller programming services

## Up and running

```

48 #pragma intellisense(off)
49
50     private function GetPending(): bool;
51     private mData: TProcessErrorData;
52     private function GetData(): TProcessErrorData;
53     private function SetData(Data: TProcessErrorData);
54     public function CProcessErrorData(ptrErrorData: pointer to TProcessErrorData := 0)
55
56 #pragma intellisense(on)
57
58     public function Reset();
59     public function Format(Number: int, Param1: int := 0, Param2: int := 0): TProcessEr
60     public property Pending: bool read GetPending;

```

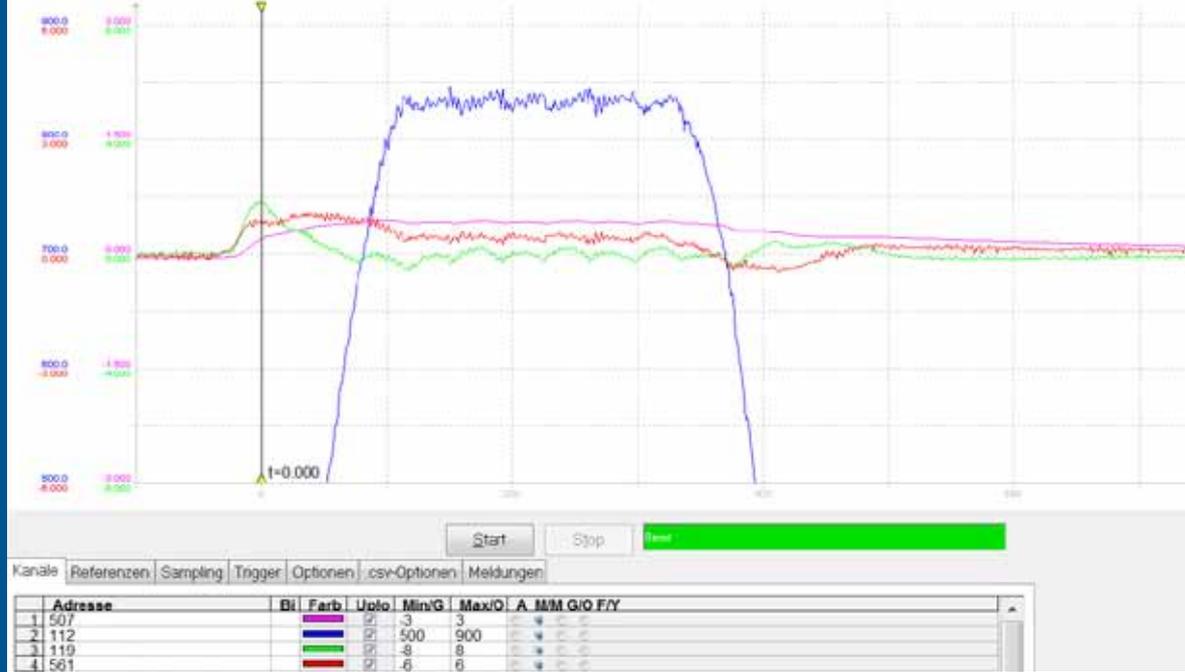
Which programming is suitable for you will depend on your specifications, or is determined based on detailed analysis and conceptual evaluation of your requirements. To identify the best solution for your control and automation tasks, our software experts from Professional Services provide vendor-independent consulting. In addition to proven STX structured text programming by Jetter, we also provide S7 programming and Simotion drive technologies from the Siemens environment.

### Our services at a glance:

- Structured text programming to IEC 61131-3-(ST)
- Siemens S7 programming, Simotion drive technology
- Conceptual design and development of software structures
- Development of programming concepts suitable for series production machinery including version management
- Update functions and variant handling
- Complete function test and acceptance

### The benefits to you:

- Vendor-neutral investigation and evaluation of programming needs
- Programming in Structured Text: The ideal PLC language for flow-oriented processes
- Simple and quick debugging
- Flexibility for machine variants
- Ensuring the necessary functionality



# Visualization applications

Usability which is worth to be seen

## PLANNED

Time in Planned Downtime

**01:29:18**

Time in Planned Downtime Job / Shift

**01:29:18 / 01:29:18**

## DOWNTIME

Time in Downtime

**01:29:18**

Time in Downtime Job / Shift

**01:29:18 / 01:29:18**

## SETUP

Time in Setup

**01:29:18**

Time in Setup Job / Shift

**01:29:18 / 01:29:18**



SLEEVES IN  
**245649/900000**

SLEEVES OUT  
**245617/900000**



Intelligent visualization applications combine ergonomic functionalities and design. Together with you, we'll develop the right operating and visualization concept for your application and see the project through to functional test and final acceptance.

#### Our services at a glance:

- Visualization applications programmed with our visualization tool (JetViewSoft) or other available tools at your discretion.
- Implementation of alarm handling, recipe management, collection and further processing of order and PDA information
- Implementation of database integration
- Selection and programming of suitable user interfaces with key, mouse or touch operation
- Complete function test and acceptance

#### The benefits to you:

- Optimized operation that meets your expectations
- Intuitive operating concept for quick and safe operation
- Open design possibilities supporting easy user guidance
- Machine diagnostics options ensure high availability



# Control cabinet production | Electrical engineering

The basis of outstanding productivity

The production of control cabinets with the electrical engineering involved includes highly complex tasks. Besides optimized dimensioning of all components with focus on technical and economic aspects, high manufacturing quality is key to a reliable operation of plants.

## Our services at a glance:

### Hardware engineering

Once the design of your electric system has been completed, hardware engineering takes place using EPLAN P8 and Pro Panel. Our services include a detailed documentation of the circuit and terminal diagram, as well as of the bill of materials.

### Control cabinet production

On a production space of about 1000 m<sup>2</sup> we manufacture and test individual or special control cabinets, as well as series cabinets:

- Power cabinets up to 5000 A
- Control cabinets to current VDE and EN standards
- Control cabinets to UL/CSA standard
- Control cabinets to customer specification
- Network cabinets
- VDE tests | UL/CSA-compliant tests



Benefit from state-of-the-art production and processing facilities where we manufacture your high-quality cabinets ensuring reliable operation. In our cable assembly shop all usual wire sizes are in stock. This way, short delivery periods can be achieved. Automatic rewinding of wires or cutting them to length enables us to provide order-specific quantities.

### Installation and commissioning

Following installation and wiring, we perform extensive measurements and tests according to common standards and requirements to ensure a high level of process reliability of your plants. Our range of services includes briefing of your staff, as well as other optional service and maintenance offers.

### The benefits to you:

- Everything from one source | Contact partners | Project partners
- Secure and rapid access to systems thanks to detailed system mapping
- Securing market access in the EU and the USA through certification preparation

# Service | Maintenance

Always ready, always available on site

In addition to our round-the-clock availability, flexible maintenance options and reaction times ensure that unscheduled downtimes are swiftly resolved or avoided altogether. From a comprehensive range of repair and maintenance services, we can provide a package that is tailored to your requirements.

## Our services at a glance:

- Hotline | Telephone and e-mail support
- 24/7 stand-by support on request
- On-site repairs and replacements by our own service team
- On-line support with optional remote access
- Remote maintenance
- Risk analysis for end-of-life products
- Compatibility analysis of products and systems
- Maintenance contracts | Preventative maintenance
- Optional enhanced warranty offers

## The benefits to you:

- Risk minimization: Preventative measures and rapid assistance in emergencies
- Risk analyses for production and planning security
- Enhanced safety through extended warranties



Temp Min 15,56 C  
Temp Max 33,94 C  
Temp Ambient 32,13 C

Date XX-XX-XXXX  
Time XX:XX  
Job WW2SD76

Customer World Wide  
Status Working  
Scale MAX



# Retrofit

New impetus for proven systems

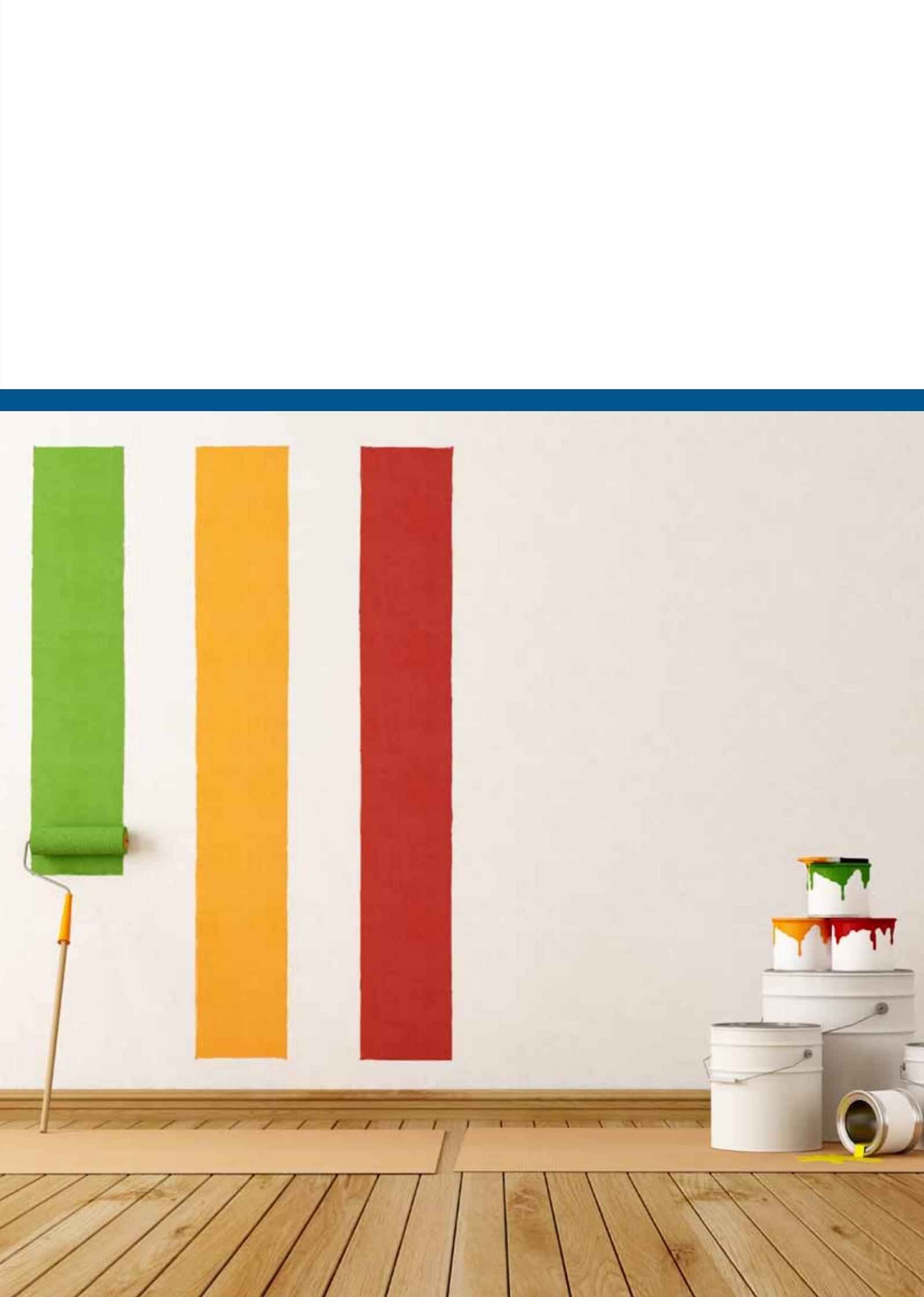
There is no need to replace existing systems completely. In many cases, you only need minor but decisive measures to make your existing machinery much more efficient. Apart from significant increases in productivity, this also offers enormous potential for energy savings in most cases. After analyzing your system in detail, we will compile a cost-efficient concept for modernizing and implementing all measures.

## Our services at a glance:

- Upgrading existing machines to create a modern, powerful control system
- Seamless integration with the existing IT structure
- Coordination of conversion work with non-production times

## The benefits to you:

- We handle the coordination, conceptual design and implementation for you
- Existing systems can continue to be used with more efficiency
- Cost reduction through energy savings
- Significant increase in productivity



# Training

Always up to date

Keeping pace with technological innovations is one of the greatest challenges for control specialists. New mechanical features, new software, new or optimized production processes call for periodic and sound education and training of the teams.

Jetter AG offers numerous seminars for people new to programming, as well as for experienced programmers. In addition to these in-house training courses, we offer an entire range of flexible and individual training options.

The underlying principle: You determine the location, time, duration and content. Our

consultants are happy to develop a customized training plan for you.

These seminars cover the following topics:

- Handling drives directly in the programming environment
- Programming and setting up using only one language
  - Digital inputs and outputs, path control
  - Vertical Integration
  - Controller as Web server
  - Secure transfer of data to the cloud and back
- And many more topics ...



All seminars have one thing in common: Applying Jetter technology in your automation environment opens up a world of new possibilities.

### Our services at a glance:

#### Standard training

- STX programming
- Drive technology / Motion Control
- Visualization applications
- Service personnel

#### Individual training courses:

- Customer topics
- Project-specific
- In-house
- On-the-job



# Internet of Things

Secure transfer of data to the cloud and back



## Our services at a glance:

- Consulting and selection of suitable solutions | Project assistance
- Commissioning and programming of all automation components
- Establishing secured connection to the cloud and back
- Solutions for access from mobile devices/apps

Production data are actually the most sensitive data of your business. Particularly in the light of increasing networking, not only between machines, but also between production sites all around the world, secure transfer of data is playing an increasingly important role.

Our Professional Services specialists combine the technological advantages of Jetter controllers - data can be collected, analyzed and sent to the cloud directly and securely not requiring an additional gateway - with provider-independent consulting.



#### The benefits to you:

- Everything from a single source: Consulting, software and hardware, commissioning, service
- Application of recognized security standards with secure authentication of communication partners
- Simple connection/integration (even into existing systems)
- Secure transfer of data thanks end-to-end encryption

## Jetter AG at a glance

For decades, the name Jetter AG has stood for highest demands on automation solutions that are used in a wide range of industrial and mobile automation sectors. Products and components by Jetter AG stand out thanks to their high degree of system integrity and diversity. Our in-house R&D departments (hardware and software), as well as our production plants in Germany allow us to always act in a quick and flexible manner. This, combined with a comprehensive range of Professional Services, enables us to put almost any customer request into practice.

Jetter AG  
Graeterstrasse 2  
71642 Ludwigsburg | Germany

Phone +49 7141 2550-0  
Fax +49 7141 2550-425  
info@jetter.de  
www.jetter.de