

## Electrical engineering goes Cloud

With Höcker Polytechnik  
prepared for IIoT und  
industry 4.0

**HÖCKER®**  
**POLYTECHNIK**

*Always one idea ahead*

# Networking, clouds, usability and efficiency. Control systems made by Höcker Polytechnik

If the technology in your MultiStar filter system knows what the processing machines require, when each kilowatt of energy is used for a specific purpose and you are always informed about the system status, we could talk about our control technology. We could tell you something about clouds, apps, networking, PLC and performance gains through state-of-the-art technologies. There is a lot of know-how in all this technology and we prefer to talk about the people who master it.

It is our electrical engineers who develop an intelligent network from state-of-the-art technology and thus generate added value for our customers on a daily basis. They are well trained, highly motivated and enthusiastic about what is meaningful and technically possible.

Their developments ensure efficiency in modern workshop operations or optimize processes in industrial production plants. And all this, of course, user-friendly and secure with intra/internet and cloud connections, apps and many other features.

**We are ready for Industry 4.0 and are happy to support you along the way into the networked future**

## Modern times! Or exactly the technology that fulfils your needs

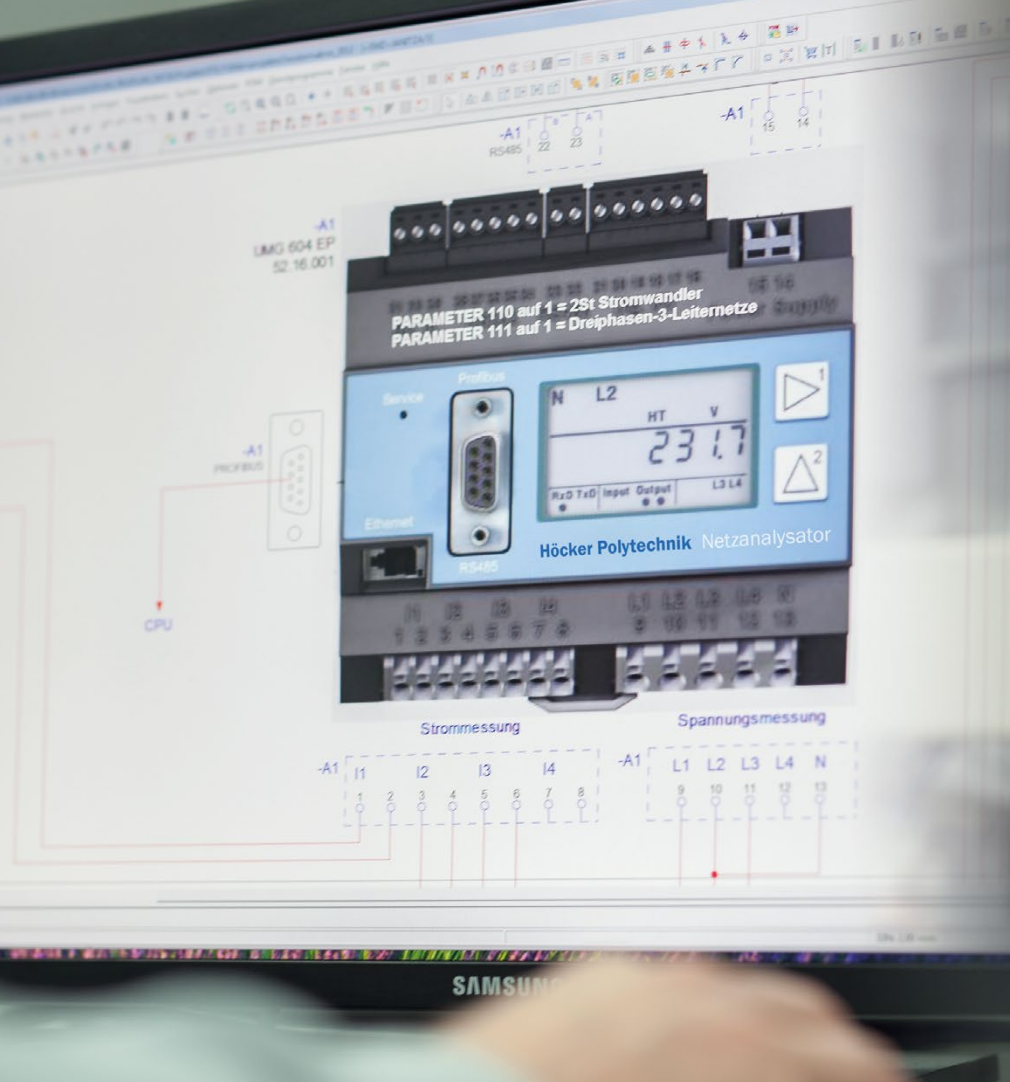
This is our understanding of industry 4.0. The technology must benefit you and your company. Without compromise.

With a Höcker Polytechnik system you get:

- a system individually designed to your company
- control technology that automates operational processes
- user friendly technology - also via smartphone
- energy-efficient components and controls
- competent technical support
- fast return on investment







## Höcker Polytechnik is certified according to ISO 50001

The Höcker energy management system has been certified according to ISO 50001. Our PLC experts focus is on energy savings and we know, of course, the enormous potential of unused energy.

It's profitable for you!



## Benefit from automated processes, energy efficiency and information leadership

Every unnecessary work and not efficiently operating motors cost money. We are team players and implement your wishes. Fully automatic disposal processes, networked machine connections, vacuum systems with continuous performance adjustment, heat recovery, energy-efficient motors, monitoring systems and many other features noticeably reduce your personnel and energy costs. The optional preventive maintenance program includes important system updates and hardware checks to ensure reliable operation of your Höcker system. All this pays off for you.

We know your industry and know about the special features of your machinery. Our project supervisors will show you on site how to implement your requirements most efficiently and integrate the new Höcker system into your existing IT infrastructure.

This gives you access to our experience from many similar projects and technology security. And if you have the right framework conditions, you may also benefit.

We will be happy to support you here as well.

### Controls from Höcker Polytechnik are used in the following branches:

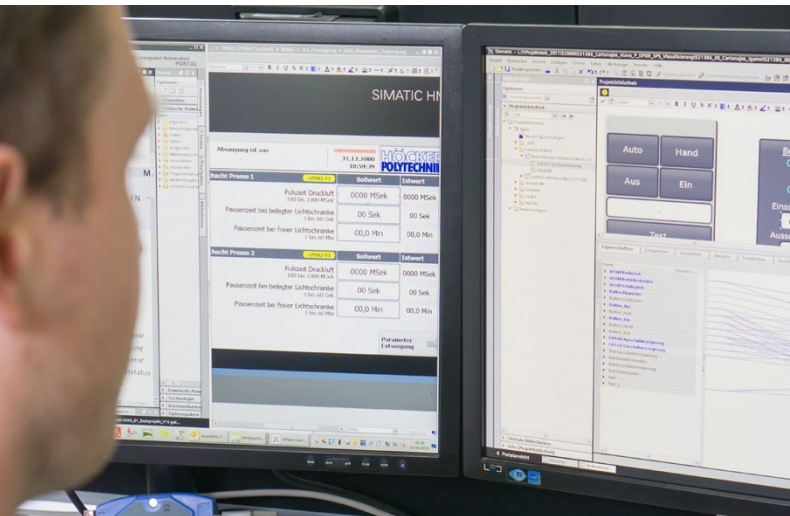
- paper, cardboard and printing industry
- woodworking and wood processing
- plastics processing
- furniture industry
- metal trade and industry
- automobile industry
- recycling companies
- public institutions
- and many more

# The optimal basis: Programming. Realise. Implementation on site. Our electrical engineering implements your wishes!

We at Höcker Polytechnik have been focusing on innovative control technology for many decades. Our expert knowledge results in more functional, user-friendly and energy-efficient systems.

As a DIN EN ISO 50001 certified company, we know how we can open up important savings potentials for you with intelligent energy and productivity features.

And since today no control cabinet is an isle anymore, we integrate our control technology into clouds, apps or your network. With maximum security.



## Planning and programming

Our well-trained programming team will develop your specific controls according to current standards. This ensures reliable operation and is future-proof.

- well trained and experienced programming team
- development tools EPLAN, Tiaportal and others
- Siemens SPS as control centres in general
- integration of energy measurement centres
- visualization for a quick overview
- integration into existing infrastructure
- support of OPC, UA, Modbus, TCP
- competent service via remote maintenance
- DIN EN ISO 50001 compliant design



## Control cabinet construction

Set up and connect. Our electrical engineering team meets your requirements for an optimal control system sovereign.

- use of Rittal® switchgear cabinets with all
- available equipment features
- industry-specific designs (stainless steel) possible
- standard-compliant connection of all control components
- tested and of course with quality assurance
- UL compliant design and implementation
- commissioning by qualified personnel
- incl. extensive documentation



## Electrical assembly

What has been planned will work - our electrical installation teams take care of it. On request, they will install all control components on site.

- our electricians are trained regularly
- no project starts without a briefing in advance
- equipped with modern testing instruments and installation tools
- minimized downtime during installation
- our team players work hand in hand with your inhouse electricians



# The important add-ons: Devices. Apps. Cloud connectivity. Well connected! Secure access to your system!

With products and support from Höcker Polytechnik you are prepared for the Industrial Internet of Things (IIoT) and the challenges of industry 4.0.

Increase your efficiency by integrating your Höcker Polytechnik system into your process map. We support you with our know-how and offer the necessary interfaces.

With us you are prepared for the digital future.

## Analysis modules and visualization

Always keep an eye on your energy balance and the status of your system. Solutions from Höcker Polytechnik give you the decisive knowledge advantage.

- Höcker analysis modules in the control cabinet provide you with an overview of the relevant data. From consumption, over voltage qualities, vibration monitoring up to residual dust monitoring. Of course, you can also take a look on your historic consumption data.
- visualized systems make it easier for you to operate your system and provide you with a quick overview.
- remote maintenance option



## Cloud Access and Apps

More comfort. More security. Acting instead of reacting and stay informed or get warned about failures early on.

- the Höcker cloud solutions provide you with uncomplicated access to status reports and consumption analyses.
- we are tapio ready. Höcker Polytechnik products offer the interface to the tapio system for woodworking machines. Machine and tool manufacturers use the same technology platform with tapio and offer tapio services and digital solutions that you can implement.

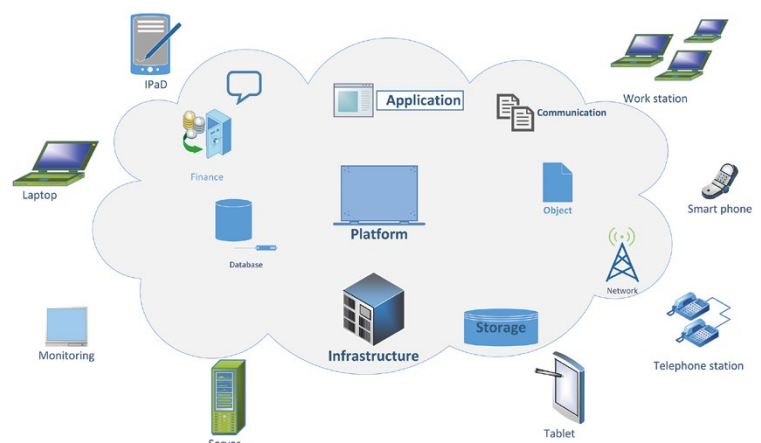


## IIoT and industry 4.0 ready

Increase your operational efficiency and optimize your processes with Höcker products.

Linked-up production creates freedom.

- We love to stamp our products with an IP number. So they become accessible in the network and part of the processes.
- We support you with the integration of your Höcker system into your existing system architecture.
- Plant commissioning at Höcker is carried out with a cloud-supported tool. A novelty that creates a comprehensible service quality.



# Höcker Polytechnik analysis modules

The intelligent analysis modules from Höcker Polytechnik provide you with access to all consumption information for your system.

With your knowledge of energy turnovers, you can identify potential savings early on and have all the information you need to optimally parameterise your system.



| Höcker Polytechnik analysis modules | MEM | APP | SPS+ |
|-------------------------------------|-----|-----|------|
| LCD                                 | ●   | ●   | ●    |
| Measurement display                 | ●   | ●   | ●    |
| Data storage - Lokal                | ●   | —   | ●    |
| Data storage - Cloud                | —   | ●   | ●    |
| GridVis Basic                       | ●   | ●   | ●    |
| HMI-Visualisation                   | —   | —   | ●    |
| APP for measurement display         | —   | —   | ●    |
| Webserver / E-Mail                  | —   | —   | ●/○  |
| Mounting in front of cabinet        | ●   | ●   | —    |
| Mounting on top hat rail            | ●   | ●   | ●    |

● standard ○ optional — not available

## Energy-efficient machine extraction



Reduce the energy consumption of your filter system to the absolutely necessary minimum.

Intelligent extraction solutions from Höcker Polytechnik reduce energy consumption and optimize extraction performance.

The suction lines on the machines are equipped with SPS-coupled sliders. When the machine is switched on, you request a defined extraction output, the frequency inverter in the control cabinet continuously increases the output of the energy-efficient motors in the filter house, and when the machine is switched off, the motor also decreases.

2009/125/EC

The Ecodesign Directive of the European Union aims to improve the energy efficiency and environmental compatibility of electrical appliances.

Future-oriented environmental awareness can pay off for you as a consumer and for the environment.

**Implement the Ecodesign Directive and benefit from BAFA subsidies.**

**Höcker Polytechnik complies with the Ecodesign Directive.**

**We combine innovative fan design and energy-efficient motors with efficiency-increasing frequency converters.**

**η-Turbo #1:  
The clean air fan**

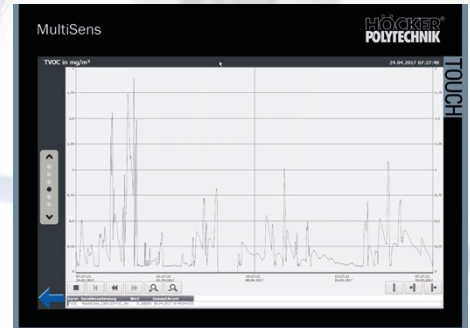
Höcker Polytechnik fans are the quiet and reliable heart of your ventilation system.

The flow-optimised impeller design is specially developed for each application and thus achieves optimum efficiency.

## MultiSens indoor air sensors

The MultiSens system monitors areas of your offices or production facilities for fine dust, CO<sub>2</sub>, VOC or organically volatile vapours.

**This ensures optimum production conditions for you as the operator.**



### The MultiSens at a glance

- Industrial quality with robust protection cage (optional) and low susceptibility to faults
- Indicates the current air quality via an LED traffic light
- 24-hour real-time monitoring in constant air flow
- Display errors due to fluctuations in humidity and temperature are minimized
- ModBus interface for data transmission to control station or visualization system
- Suction of ambient air via an integrated fan
- Significantly more efficient than person-operated systems: covers approx. 50 m<sup>2</sup> of working space



#### Green light:

Everything's fine.

#### Orange light:

The threshold value has been reached. Attention recommended.

#### Red light:

The threshold value has been exceeded. Action required.

### η-Turbo #2: The engine

It depends on the right choice of motors and technology. A motor that is too powerful or overloaded is a power guzzler.

Our experts benefit from 55 years of practical experience in the construction of ventilation systems. The suitable motor type with energy-efficient technology (IE3/IE4) optimises efficiency.

### η-Turbo #3: The frequency converter

The use of a frequency converter reduces the current consumption of the fan by up to 60%, enables stepless operation and protects the motor.

Höcker Polytechnik meets the requirements of the Ecodesign Directive by combining these three efficiency-optimizing components.

### Maximize efficiency, integrate BAFA funding

By using efficiency increasing products from Höcker Polytechnik you benefit from reduced energy costs.

Special state support programmes promote your commitment and thus provide for fast amortization of the project.

**We will be happy to assist you with your application. Talk to us.**





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