

System control

# iONcontrol



# System Description

## System control

The **iON**control system has been redesigned by Hildebrand Technology and optimized for industry 4.0 applications. The entire system can be controlled via the industrial touch screen with its self-explanatory user interface. Explicit icons, clear statistics and logical menu navigation make operation on the industrial panel easy for every user.

### The core of automation

The control system is designed in such a way that it can be networked with all components. Production and maintenance processes are simplified and line management becomes even more efficient. The **iON**control can be integrated flexibly and easily into any production environment. Whether as a component in a control cabinet or as a stand-alone console; the **iON**control is used directly at the location of the process. The safe data exchange with higher-level systems is done with an Ethernet® connection.

### Application areas

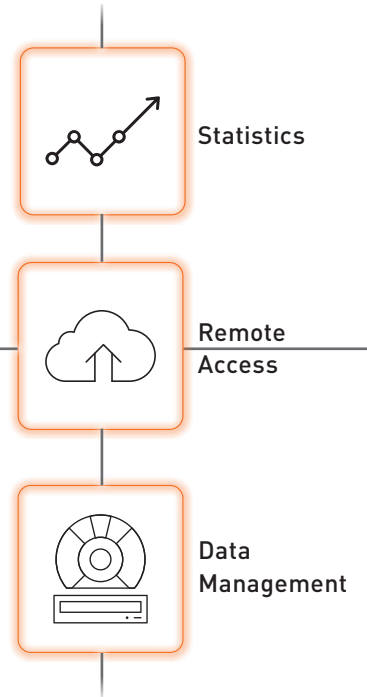
The extensive functions of the **iON**control system are used wherever high and reproducible discharging, charging or web cleaning is required. The **iON**control is also ideal for applications where a fully automatic and process-safe discharge, charging and web cleaning is required.

## iONcontrol Product-Highlights

- Clearly arranged touch display for easy control of web cleaning systems, slitting dust removal, discharging, charging and residual charge measurement
- 7" screen with intuitive symbolism
- Robust CAN bus technology for horizontal networking
- Data exchange with higher-level plant control systems
- Graphically processed production data acquisition
- Storage of application parameters on SD card
- Flexible installation in control cabinet or as free-standing console

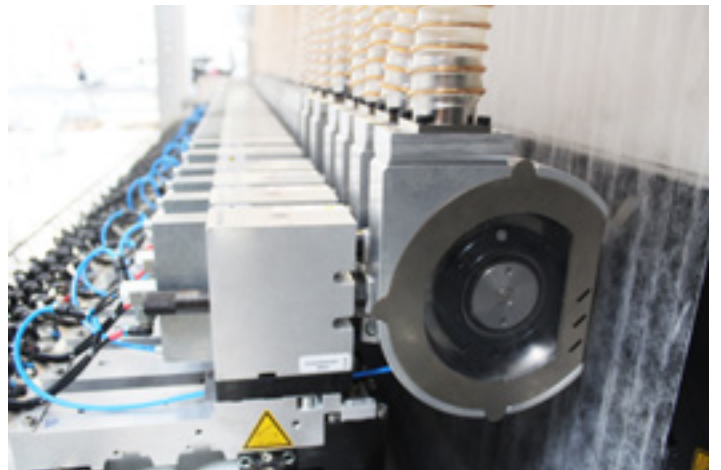


# Fully integrated automation



# Centralization of all parameters

One control unit for everything! With the new generation of iONcontrol you have all functions and parameters under control.



## Web Cleaning

With the help of the iONcontrol all relevant parameters of the web cleaning process are visualized and monitored. This leads to the highest possible process reliability. Web cleaning is mainly about parameters such as vacuum, position of the module, efficiency, filling level, filters etc.

## Slitting Dust Removal

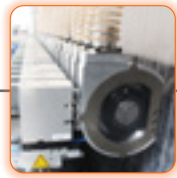
With iONcontrol, all important parameters of slitting dust removal are visualized and monitored. This leads to the highest possible process reliability. Slitting dust removal is mainly concerned with parameters such as vacuum, position of the module, efficiency, filling level, filter etc.

## Vertical and horizontal integration

The iONcontrol can be easily integrated **vertically** into existing systems and production infrastructures and allows bidirectional data exchange for an effective production process.



Web Cleaning



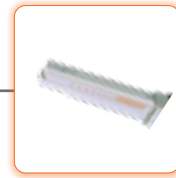
Slitting Dust Removal



Discharging

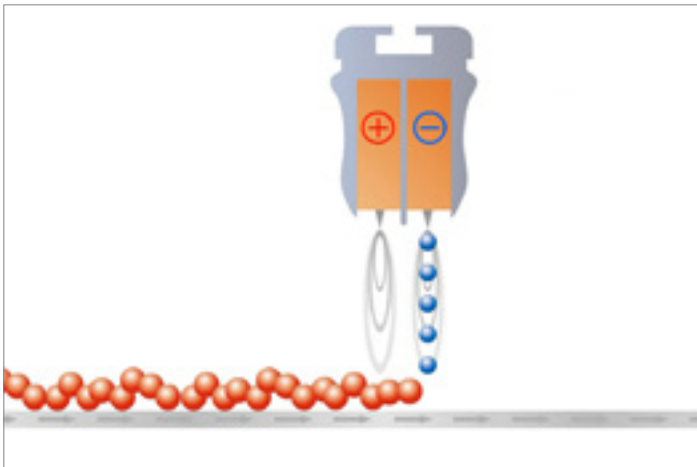


Charging



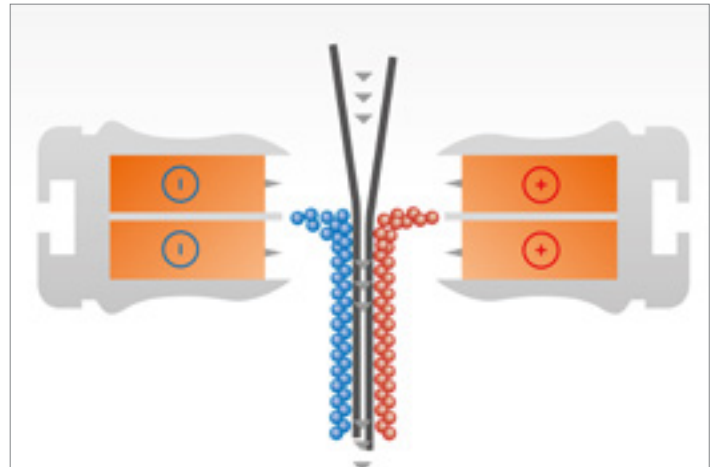
Measurement

**Horizontally**, iONcontrol is networked with all components of Hildebrand Technology and allows a high degree of automation.



### Discharging

iONcontrol enables the visualization and monitoring of all essential parameters of discharging system. This leads to the highest possible process reliability. Discharging mainly involves parameters such as degree of pollution, duty cycle, output voltage etc.



### Charging

With the help of the iONcontrol all important parameters of the charging systems are visualized, monitored and controlled. This leads to the highest possible process reliability. The charging process mainly involves parameters such as output voltage, output current and polarity. Furthermore, with iONcontrol the output voltage can be individually adjusted according to the application.

## iONcontrol Advantages

### Centralization of all parameters

With the new generation of the iONcontrol you've all functions and parameters under control.

### Intuitive user interface

The comfortable touchscreen with it's modern icon user interface enables easy and intuitiv handling for every operator.

### Reproducibility of the measurement results

Thanks to the iONcontrol, all functions and application parameters are centrally under control.

### Fully integrated automation

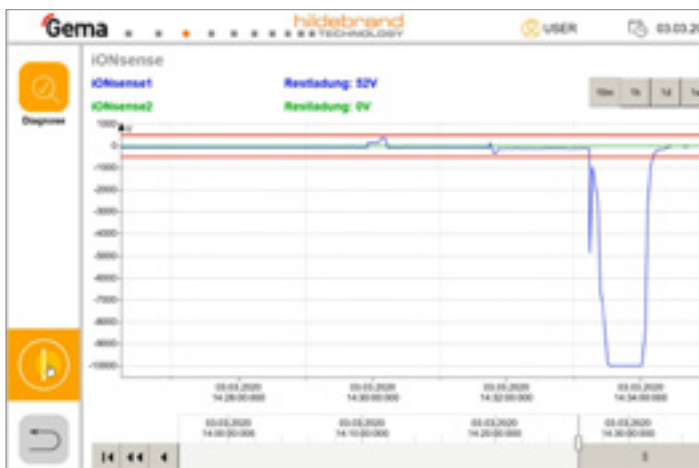
The control system is designed to be networked with all components. This simplifies the production and maintenance processes and improves overall line management efficiency.

### Flexible configuration and integration

Whether as a component in a control cabinet or a stand-alone console, the iONcontrol is used directly where the process takes place.

### Data exchange with superior PC and PLC systems

iONcontrol can easily and safely exchange data with higher-level systems using an ethernet® connection.



### Residual charge measurement

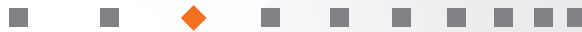
With the help of the iONcontrol all important parameters of the residual charge measurement are visualized and monitored. This leads to the highest possible process reliability. The measurement of the residual charge is mainly the parameter of the residual charge that the substrate has. In addition, the iONcontrol records the residual charge of each individual sensor and stores it on the integrated SD card so that the data can be retrieved at any time.

### Production data acquisition and access

With its integrated statistics and trend tools, the iONcontrol offers the user the possibility to analyze important production information. The iONcontrol system allows comfortable access directly at the device or via remote client for service and support.



Gema Switzerland GmbH  
Sommeraustrasse 5  
CH-9200 Gossau



**hildebrand**  
**TECHNOLOGY**  
a Gema division

Phone +41 71 313 83 00  
info@hildebrand-technology.com  
www.hildebrand-technology.com

Surface Dust Removal • Electrostatic Neutralising • Electrostatic Charging • Measurement Systems