



**KONRAD PUMPE GMBH**  
*OUR TECHNOLOGY MAKES AN IMPACT.*

# CONTROL TECHNOLOGY

Control cabinet construction for industrial machines







CONTROL TECHNOLOGY FOR THE BIG-Mix V

# IN-HOUSE PRODUCTION

Safe. Individual. Flexible.

## Customised control cabinets

From planning to the last function test before a delivery - the electrical department of Konrad Pumpe GmbH takes care of the production of the control technology at the company site itself. With our own control construction, we are now able to connect various features and react flexibly to different customer requests. In this way, we create customised control technologies for the different needs of the customers.



Fabrication of a new control cabinet according to the circuit diagram and layout plan of our own electrical department.

# MADE BY KONRAD PUMPE GMBH

Control cabinet construction & software development

## Complete internal value creation

The mastery of various process chains in value creation is the success factor of Konrad Pumpe GmbH. In order to close the value-added process in plant engineering and to combine all core competences in manufacturing, the control cabinet construction with the associated software development was integrated into the own company.

The integration of control cabinet construction including software development opened up new perspectives for the company to integrate differentiated solutions and provide diverse options with additional

added value according to customer needs. This results in synergies that lead to greater flexibility, faster response times, optimised coordination between mechanical and electrical systems, and improved customer service. In this way, we succeed in achieving the ultimate goal for you and offer you the highest product quality and economic efficiency for your system and significantly increase your customer satisfaction.

Programming & installation of the software technology





# NEW CONTROL SYSTEM

## Efficient. Transparent. Detailed.

### A wide range of options

As an experienced producer in plant construction, we know our customers' needs very well. Our various features are based on the wishes of our existing customers. For your operation, this results in advantages such as an exact recording of your individual dosing processes or an overview of your system status from a distance. Our sales team will advise you comprehensively in advance about the various options and go through with you in detail which solutions will create the greatest possible benefit and economic advantage in your operation.



A high-quality web panel is the operating element of the control technology. The display is installed in a stainless steel housing with a weather protection cover and can be mounted at any user-friendly location.

The web panel is pre-installed with in-house software technology that provides you with a wide range of options for controlling, monitoring and communicating with your system. The user-friendly software is logically structured and can be operated by touch.

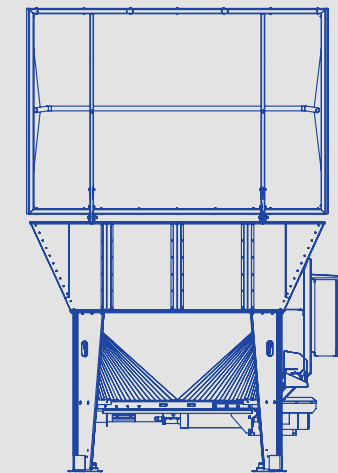
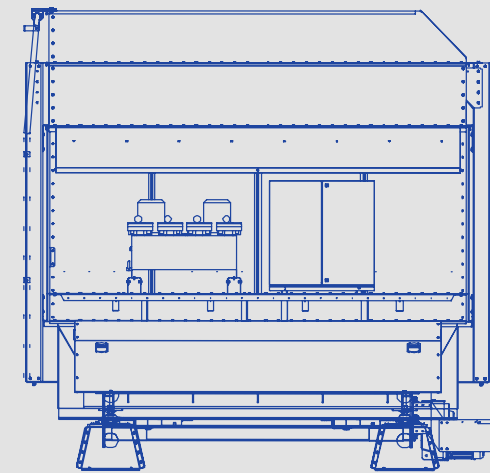


AUTO-Feed input



AUTO-Mix recipe input

Depending on the customer's needs, you can select your desired options from our diverse mixing and dosing programming. With the „AUTO-Mix“ option, you specify the recipe according to which you can fill your dosing unit, while with the „AUTO-Feed“ option you control the dosing out according to a predefined time and weight.



### WEIGHING DISPLAY



An LED display with a clearly visible indicator gives you information about the filled weight of the system. Similar to the web panel, the LED display of the weighing system is protected in a stainless steel weather protection cover and can also be positioned at a user-friendly location on your system.

Use the large display to take additional information on the system status, which is displayed on the left side depending on the status.

### EASY CONTROL



In contrast to the extensive control technology, Konrad Pumpe GmbH offers a slim version that concentrates on the most important operating functions of a system. The EASY control is specially designed for small systems that do not have a push floor and require simple operation. The associated 4.3" display is integrated in the control cabinet and can be operated by touch.



### VNC-VIEWER

The PLC control has an Ethernet interface. This allows you to operate your dosing unit outside of your reach. Whether in the office or from the control room - if the control connects to the network located on the plant, you can view the processes of your dosing unit from the PC, tablet or smartphone via the VNC viewer.

### VPN ROUTER

The VPN router is the contactless means of communication between your system and our service team. Via the secure VPN connection, which is established by means of a mobile phone, we receive access rights to your dosing unit. With the VNC viewer, we extract the operating status of your machine and can also carry out remote maintenance and diagnostics at low cost in terms of time, money and resources.



## EXCEL DATA RECORDING

With the integrated documentation, you receive a comprehensive record of the dosed-in and dosed-out quantities of your substrates that you have processed in your plant over the last few months. You can view the documentation directly on the web panel or open it on your PC via a data export as an Excel file and process it further.

There are two options for exporting Excel data: either save the data manually from the web panel to a USB stick and then transfer it to your PC, or export the data to your computer via a network.



Evaluation of the last dosing processes on the web panel

Excel export file on PC incl. VNC viewer view

## RADIO REMOTE CONTROL

With the IP67 protection class radio remote control, you can operate different functions easily and with a long range.



Secure an efficient product for operating your system with the control technology!

## YOUR ADVANTAGES

- ✓ Customised production tailored to every customer need
- ✓ Wide range of options available for upgrading
- ✓ Highest operational safety through remote maintenance
- ✓ Targeted solution finding through in-house service
- ✓ High transparency of data processes
- ✓ Highest control and efficiency increase through data recording and evaluation
- ✓ Flexible control for operating all dosing systems of Konrad Pumpe GmbH
- ✓ Connection to the main control system via the common bus systems and networks
- ✓ Expandable with conveyor technology for feeding

## ARE YOU INTERESTED IN OUR CONTROL TECHNOLOGY?

### CONTACT OUR SALES TEAM:

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## The specialist company for plants

Founded in 1830 as a blacksmith's shop, we at Konrad Pumpe GmbH are now an innovative specialist company for mechanical and plant engineering with approx. 80 employees. We have made it our business to make a valuable contribution to the sustainable handling of waste materials. To this end, we

produce customised machine components for a wide range of applications such as dosing and conveying systems, including switch cabinet and control system construction for biogas and recycling plants.

### BIOGAS TECHNOLOGY



We produce high-quality and robust dosing systems for the biogas and recycling sector, which are designed for different uses. Our proven product range impresses with high quality, durability and energy-efficient use in the processing of demanding substrates.

### DOSING TECHNOLOGY



For the agricultural sector, we build dosing technology and mixing containers for different feedstuffs. Our machines are suitable for various fields of application and are characterised by their functionality and flexibility, which meet the highest demands for quality, performance and durability.

### MECHANICAL ENGINEERING



State-of-the-art CNC and laser technology is part of the basic equipment of our in-house machinery. Here, we produce customised products and our own developments for a wide range of applications in the agricultural and industrial sectors. Steel and stainless steel are the main materials processed.

