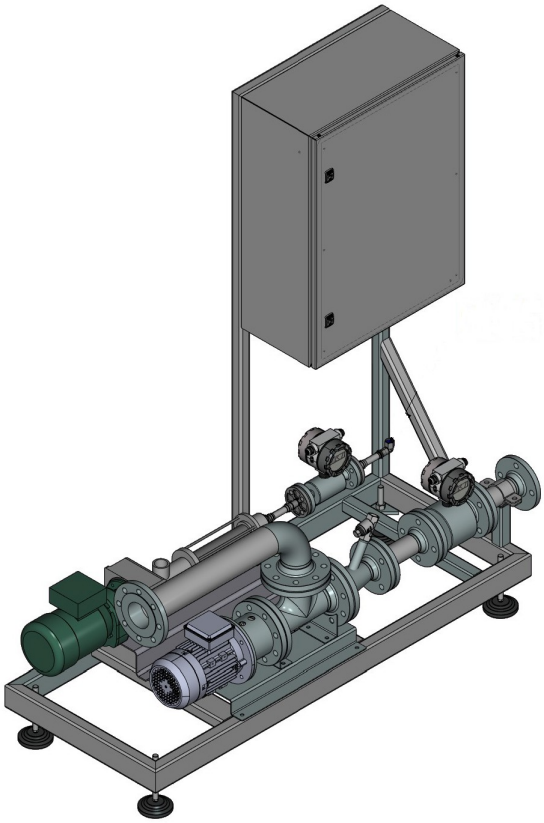
Mixing- and dosing station

Type WMDS 80



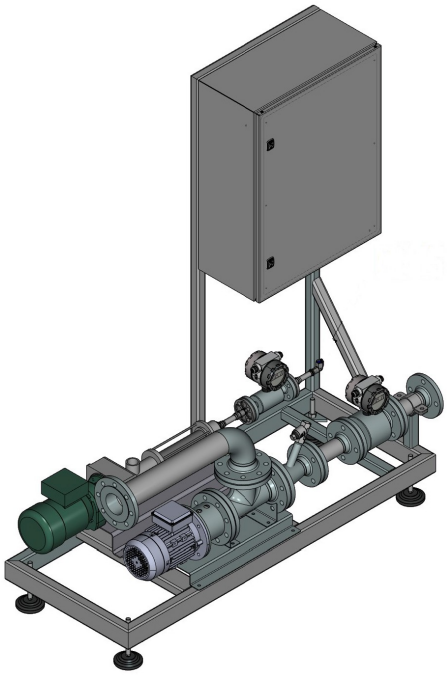
waterprocesstec GmbH | Niedersachsenstraße 4 | D-48465 Schüttorf | Tel.:+49 (0)5923/ 90 229 20 | Fax: +49 (0)5923/ 90 229 29
E-Mail: sales@waterprocesstec.com | Internet: www.waterprocesstec.com

Features

- Automatic mixing station for volume-proportional mixing of media such as polymer/sludge, emulsions, etc.
- Very compact structure, suitable for small rooms
- Very good mixing result and efficient use of the medium e.g. polymer
- Low maintenance with dynamic mixer CM 80
- Fully automatic and manually operable
- **Extremely simple commissioning and operation**
- Various designs and many options

Technical description and process

The mixing- and dosing station type **WMDS 80** is developed on the basis of our dynamic mixer CM 80 in order to achieve an optimal dosing of the polymer in proportion to the quantity and thus an optimal mixing of the polymer into the sludge. The unit is suitable for all types of polymers and is therefore manufacturer-independent. Ideally, it is the supplement and downstream unit to our liquid polymer units WID 2000 or WBD 3000, but it can also work together with any other polymer station.



The liquid polymer is drawn from the feed tank by a continuously variable eccentric screw pump and conveyed to the dynamic mixer. The required quantity is measured by a flow meter and can be metered in proportion to the quantity with the "electrical cabinet and process control" option. For this purpose, the conveyed sludge quantity is also recorded via a flow meter. The speed of the dynamic mixer and the mixing energy introduced with it can be parameterized depending on the requirement and is controlled appropriately.

The mixing- and dosing station **WMDS 80** is designed for fully automatic operation. Of course, it can also be operated in manual mode. Due to the few mechanical components, the system requires very little maintenance. Long-term availability is guaranteed.

Areas of application

The waterprocesstec mixing- and dosing station **WMDS 80** is used in waste water technology, in sludge dewatering, in the treatment of drinking and service water as well as process and circulating water. Many other areas of application in the chemical industry, in power plants or in the paper industry are possible. If you have any questions, we are at your disposal.

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Technical data

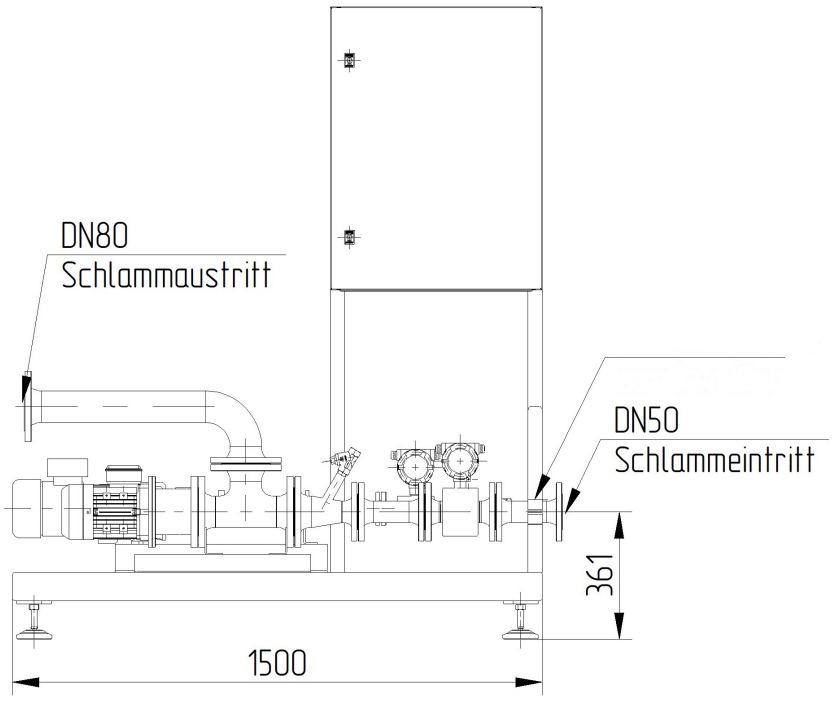
Electrical Connection

Supply Voltage	3 x 400VAC + N+ PE / 50Hz
Power Input	3 x 10A

Electrical components
Siemens PLC S7
Siemens Touchpanel 7“
Siemens control cabinet components
Toshiba Frequency converter or similar
Bürkert regulation valve
Netzsch pump, design see order code
END-Armaturen electrical ball valve
Promesstec flow meter MDW 500

Mechanical Connection
Design see order code

Technical drawing



Mechanical structure and arrangement of the components. Illustration as an example, may vary depending on version.

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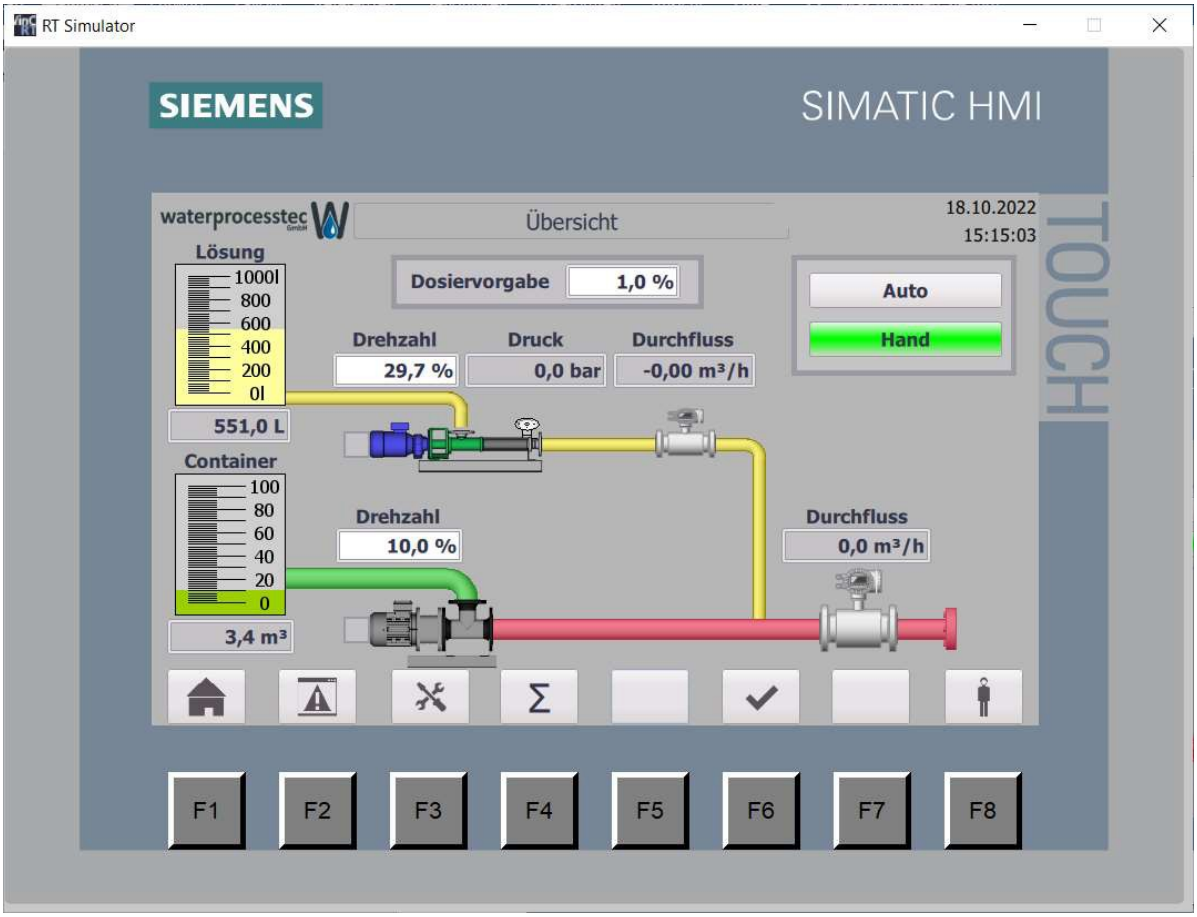
Description electrical cabinet and process control

In the version " With electrical cabinet and process control" you will receive a fully automatic and proven plant. With the 7" touch panel and the downstream Siemens PLC control you can all settings and parameterizations as well as the complete operation of your waterprocesstec **mixing and dosing station WMDS 80**. As an example we show you the main menu page.



The main menu page shows all parameters of your plant. All measured values are displayed numerically or graphically or by color change.
On further pages, not shown here, you have the possibility to set the integrated control, the parameterization of the measured values, an extensive password protection with different operating levels as well as to manage the alarm and error messages.

In this version, we have included further measured values such as the filling level of the polymer feed container and the filling level of the downstream sludge container. Such customer-specific adaptations are also possible. Please do not hesitate to contact us if you have any questions.

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Order code WMDS 80-...

Material pipe

-1 stainless Steel 1.4301

Design installation

-M1 with machine base frame for free standing
-M2 with machine base frame and for electrical cabinet for free standing

Design electrical motor and rotation speed dynamic mixer

-1 400 VAC Motor, Power 0,75 KW, Rotation Speed 1500 U/min
-2 400 VAC Motor, Power 0,75 KW, Ratation Speed 3000 U/min

Diameter pipe sludge or basic medium input side

-A DN50 (Flow meter in Design DN50)
-B DN65 (Flow meter in Design DN65)
-C DN80 (Flow meter in Design DN80)

Diameter pipe sludge or basic medium output side

-A DN50
-B DN65
-C DN80

Diameter pipe dosing medium (for example polymer)

-1 DN 15 (Flow meter in Design DN15)

Design dosing pump (for example polymer pump)

-1 flow rate 200...2000 l/h

Description electrical cabinet and process control

-A without electrical cabinet
-B with electrical cabinet and process control (*Attention*: please take base frame -M2)

Options (several possible)

-0 without more options

Important info:

Other configurations such as larger or smaller systems, decentralized structures, adaptation of the software or visualization, remote maintenance, etc. are possible.
Talk to us and together we will find the ideal system for you.

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