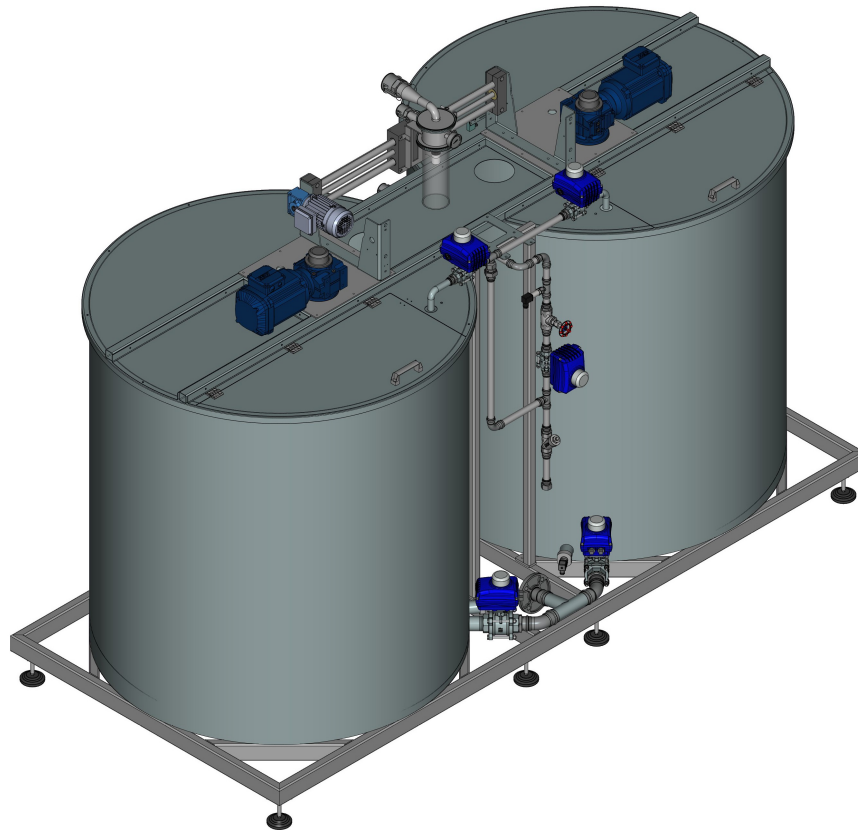


Polymer Preparing Station Powder

Type FAB Pendel



Short description and features

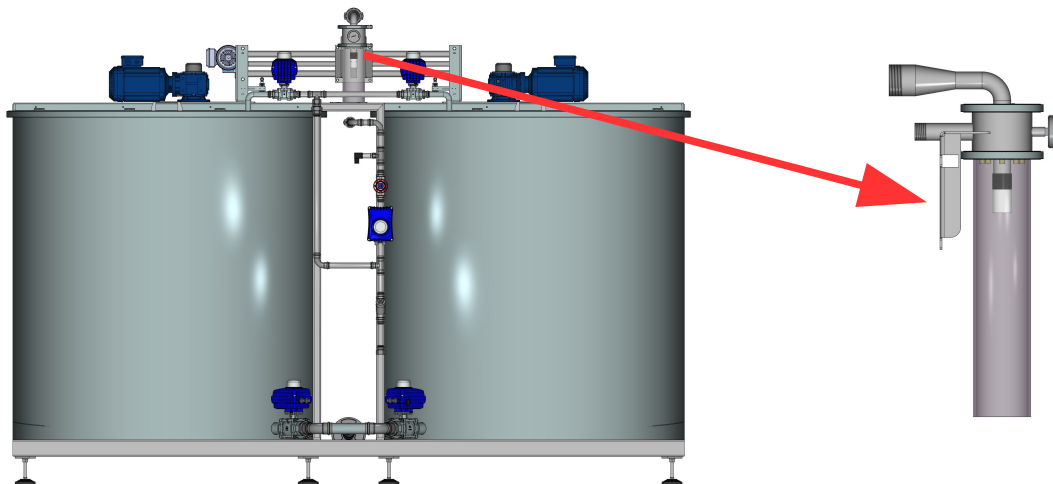
- Suitable for all types of powder polymer products, optionally liquid polymer products
- 2 stainless steel mixing tanks, continuous operation
- No "clumping" thanks to the innovative Jet Wet mixing head
- Rapid approach with maturation time, gentle mixing of water and polymer products
- Simple and comprehensive operation via touch panel
- Fully automatic, batch operation or manual operation
- High-quality industrial components such as motor ball valves, etc.
- Extensive options and individual customization

Technical Description and Process

The **waterprocesstec FAB** pendulum polymer systems were developed to enable the controlled dispersion of polyelectrolytes in water. These systems are used for the preparation and processing of solid and, optionally, liquid polyelectrolytes, regardless of the manufacturer. The concentration of the stock solution is approximately 0.5–1.0% by weight, depending on the product. The **waterprocesstec polymer systems** are designed for fully automated operation, but manual operation is also possible at any time.

The process begins in the dry material dosing station. The powder is transported via the discharge screw of the dry material dosing unit into the Venturi nozzle. From there, the powder is conveyed by a side-channel blower into the innovative Jet Wet mixing head. Wetting with water occurs at this stage. This early mixing prevents clumping on the water surface.

In one of the mixing tanks, a water reservoir is introduced via rapid filling until the agitators are wetted. The water level is continuously measured. The product, thus dissolved, is then gently mixed by an agitator until the optimal maturation time has elapsed. All parameters and the operation of the entire system are controlled via the touch panel.



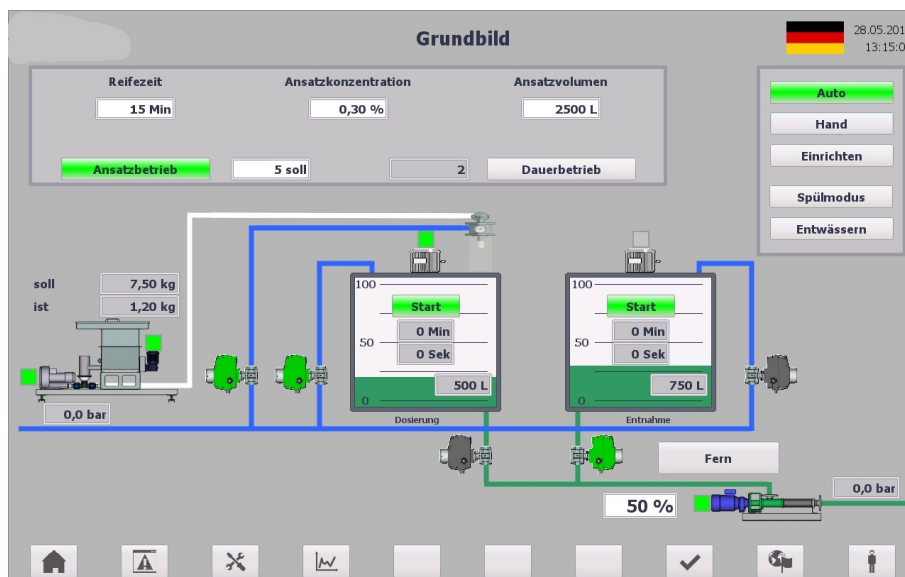
During the maturation period, the mixing head can be moved to the other mixing vessel. Here, the next batch is prepared. This pendulum process allows for both continuous and batch operation. An optimal polymer solution is always available in sufficient quantity for your process.

Options

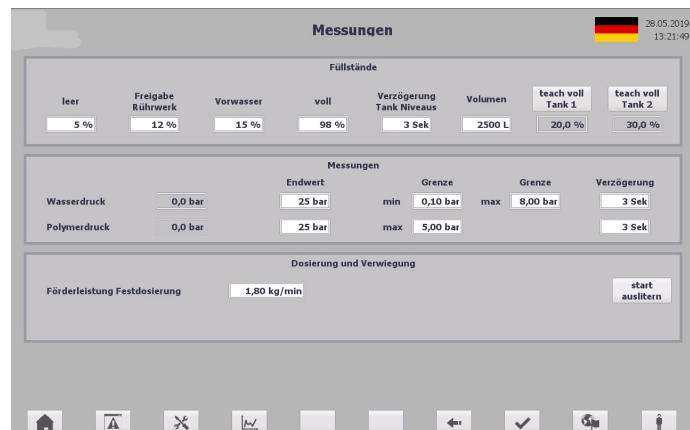
Numerous options are available for optimal adaptation and integration into your process. From polymer transfer pumps and transfer buffer tanks to dosing stations, **waterprocesstec** has the right solution for your application.

Numerous optional interfaces are available for electrical or digital integration into your process or connection to your process control system. You can communicate with our systems via bus systems or Ethernet. All system parameters are available in the interfaces.

PLC Control and Software



Here we give you a look insight into the extensive possibilities of parameterizing and operating the system.



Applications

The **Waterprocesstec** polymer systems are used in wastewater treatment, sludge dewatering, and the treatment of drinking and process water, as well as process and circulating water. Many other applications in the chemical industry, power plants, and the paper industry are possible and have already been frequently implemented.

We are happy to assist you with any questions regarding your customized solution.

Technical Data

Volume size, batch size, etc.

See Order code

Waterparameter

Temperature +5°C...+45°C (other areas available upon request)
Quality Drinkwater (Prozesswater upon request)

Volume Dry material feeder TGD301 (other volume like Big Packs upon request)

Standard 75 Kg brutto, 50 Kg netto when operating the system
OR
175 Kg brutto, 150 Kg netto when operating the system

Supply voltage and connection power

FAB Pendel 3 x 400 VAC+N+PE, 3 x 16A

Material

Tanks Stainless steel V2A
Pipes Stainless steel V2A
Maschine frames Stainless steel V2A
Dry material feeder Stainless steel V2A
Electrical control cabinet Sheet steel painted

Electrical components (je nach Ausstattung abweichend, wenn nicht anders gewünscht)

PLC Control Siemens
Touchpanel Siemens
Emergency stop relay Siemens or Pilz
Controls Siemens
Relay Siemens
Motorprotection switch Siemens
Electrical terminal Phoenix
Safty Switch Schmersal
Empty detector TGD IFM
Measurement BD|SENSORS, Endress&Hauser, promesstec
Motor Ball valves END Armaturen
Agitators SEW-Motor, other components like agitators etc. from waterprocesstec
Pumps Netzsch

Order code FAB Pendel-...

Medium

-A for powder polymer

Tank volume (Information per tank)

- 1 2 Tanks with each 500 Liter Nettovolume
- 2 2 Tanks with each 1000 Liter Nettovolume
- 3 2 Tanks with each 2000 Liter Nettovolume
- 4 2 Tanks with each 2500 Liter Nettovolume

Dry material feeder

- A Dry material feeder TGD 301, Volume 50Kg with bag rack and top cover
- B Dry material feeder TGD 301, Volume 150Kg with bag rack and top cover

Photos for example



Polymer Preparing station with 2 x 2500 liter stainless steel tanks
mixing head and transfer unit for mixing head



Dry material dosing station with blower