

Solid-based sodium hydroxide solution

(pellets, flakes, beads or powder)



A safe solution for
preparing alkaline
detergents
cost-efficiently



Large number of safety features

Variety of options available

High-quality stainless steel
construction

Extensive range of accessories

1000, 2000 and 5000 litre
preparation tanks available

Solid-based sodium hydroxide solution

sera has developed a cost-efficient system solution specifically aimed at industries with fluctuating, but large requirements of alkaline detergents, such as sodium hydroxide. This solution ensures the safe and efficient preparation of soda lye on the basis of sodium hydroxide (NaOH) in solid form (pellets, flakes, beads or powder) and water.

Safety and efficiency are key

The basic system consists of a stainless steel preparation tank, an agitator and a special conveyor, which is separate from the preparation tank. The conveyor consists of a hopper and a stainless steel feed screw which transfers the solids into the preparation tank.

This design ensures that the operator is not in the immediate danger zone of the preparation tank in which the solids react exothermically with water.

The preparation tank is available with a capacity of 1000, 2000 or 5000 litres. It is fitted with a level gauge with shut-off valve, a temperature gauge and a tubular safety frame to prevent accidental body contact.

Additional options and accessories

The prepared solution is transferred into a larger storage tank either using a sera transfer pump which is mounted onto the



The system as per standard specification with a 2,000 litre preparation tank

preparation tank or with the help of a sera transfer unit which is separate from the preparation tank.

An optional hopper cover and a special suction device as an additional safety feature are available.

The entire system can be partially automated or integrated into existing process control systems with the help of a PLC.

The sera transfer unit (left) transfers the prepared solution from the integrated preparation tank (right) into a separate storage tank



sera transfer unit and storage tank for the prepared solution





The system with a 1,000 litre preparation tank, optional hopper cover and optional PLC



Optional suction device to eliminate potentially hazardous dust generation and distribution during material supply

Single source procurement

To remove the solution from its storage tank and to accurately transfer it into the relevant process, a large range of **sera** dosing systems is available; each can be customized for application.

Benefits overview

- Design-based separation of debagging station and preparation tank (exothermic reaction) and optional suction device to increase the safety for people and environment
- Cost-efficient preparation of solutions as needed by preparing only the amount required for each process
- Cost savings for transport, delivery and storage of bagged solids in comparison to ready-made solutions
- No need for extensive structural safety features which would be required for the delivery of ready-made solutions via hazardous goods tankers
- More flexibility regarding the concentration of each solution by increasing or reducing the amount of solids



sera dosing systems, such as the standardized compact CVD models, are ideal for subsequent solution dosing

Locally present for our global customers

With local offices in England and South Africa and a worldwide sales and service network with more than 30 foreign representatives in more than 80 countries across all continents, **sera** guarantees optimum support for customers locally.



Our representative offices

Algeria	Denmark	Lithuania	South Africa
Angola	Ecuador	Luxembourg	South Korea
Argentina	Egypt	Mexico	Spain
Austria	Estonia	Morocco	Sweden
Australia	Finland	Netherlands	Switzerland
Belgium	France	Norway	Taiwan
Bolivia	Great Britain	Paraguay	Thailand
Bosnia and Herzegovina	Greece	Peru	Tunisia
Brazil	Hungary	Philippines	Turkey
Bulgaria	Indonesia	Poland	UAE
Burundi	Ireland	Romania	Ukraine
Byelorussia	Israel	Russia	Uruguay
Canada	Italy	Rwanda	Venezuela
Chile	Japan	Saudi Arabia	Vietnam
China	Kenya	Serbia	
Croatia	Kongo	Slovakia	
Czech Republic	Latvia	Slovenia	

sera ProDos GmbH
sera-Straße 1
34376 Immenhausen
Germany
Tel.: +49 5673 999-02
Fax: +49 5673 999-03
info-prodos@sera-web.com
www.sera-web.com