

INDUSTRY SOLUTION



INDUSTRY & PROCESS SOLUTIONS



INSPIRED. SOLUTIONS. FOR CUSTOMERS.



sera

An enterprise of the future

sera is one of the world's leading companies in the field of dosing and compressor technology, as the **sera** Group has been developing and producing application solutions which ensure precise dosing, conveying and compression of liquids and gases for over 70 years.

As an independent family business with its headquarters in Immenhausen, subsidiaries in the UK, South Africa and Spain and over 30 effective partners representing **sera** in more than 80 countries, we guarantee professional support, advice and services on the ground throughout the world.

EXCELLENCE IN FLUID TECHNOLOGY

We create added value for people and the environment.

Our customers and business partners, with their different needs and preferences, are always at the heart of our activities and actions. We inspire them with our products and services and impress them with our quality, expertise, speed and reliability.



Our foundation

With over 70 years of specialist knowledge and technological expertise behind us, we are system specialists in customized applications and we impress our customers with our integrated solutions and high-quality products.

Our aim

Customers are at the heart of everything we do. We therefore work with them to develop solutions that address their respective needs. Personal, professional support throughout the entire project process ensures that our customers get the best advice.

Our passion

sera stands for reliability, flexibility and innovation. We work professionally and passionately to inspire our customers with optimal solutions and durable, high quality products day in, day out.

OUR DOSING SYSTEMS AND UNITS - THE BEST SOLUTION FOR YOUR APPLICATION

STANDARD DOSING SYSTEMS



CVD1 - COMPACT DOSING SYSTEM, VERTICAL

Flow rate: up to 1450 l/h
Pressure: up to 10 bar

[Page 5](#)



CVD2 - COMPACT DOSING SYSTEM, VERTICAL

Flow rate: up to 2x 1450 l/h
Pressure: up to 10 bar

[Page 6](#)



CTD - COMPACT DOSING STATION

Tank volume: 40-1000 litres
Flow rate: 0.4 - 570 l/h
Pressure: up to 10 bar

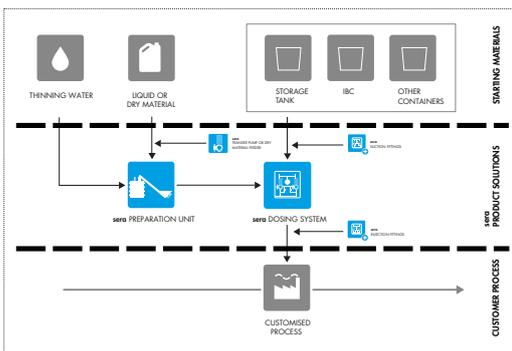
[Page 7](#)



POLYLINE - PREPARATION AND DOSING UNITS

Polymer preparation volume: 500 - 8000 l/h

[Page 8 - 13](#)



CUSTOMIZED SOLUTIONS

Individual design for your application

[Page 14](#)

COMPACT DOSING UNITS, VERTICAL DESIGN CVD 1



OVERVIEW

- The most modern pump technology
- Standardized mounting plates
- Space-saving wall mounting
- Wide range of applications
- High safety standard
- Large range of capacity
- High dosing accuracy
- Easy to operate
- Low maintenance
- Complete range of accessories

TECHNICAL DATA

| UNIT DATA | | CVD1(s)-60.1 | CVD1(s)-550.1 | CVD1(s)-1500.1 |
|------------------------------|-----------|--------------|---------------|----------------|
| Flow capacity | l/h | 0 - 60 | 0 - 550 | 0 - 1500 |
| Permissible counter pressure | bar (max) | 10 | 8 | 5 |
| Permissible suction head | mWC (max) | 3 | 3 | 3 |
| Number of pumps | Quantity | 1 | 1 | 1 |

BASIC DESIGNS

CVD 1 s

- Dosing pump
- 2-way shut-off valve on the pressure side (Shut off/Emptying)
- Diaphragm relief valve
- Wall mounting plat made of PP (H=1.000mm, with drip pan)
- Piping on pressure side made of PVC-U or PP
- Seals made of EPDM or FPM

- Connection suction side: External thread of pump's suction valve
- Connection pressure side: External thread of final shut-off valve

CVD 1

- Dosing pump
- 2-way shut-off valve on the pressure side (Shut off/Emptying)
- Diaphragm relief valve
- Wall mounting plat made of PP (H=1.500mm, with drip pan)
- Piping on pressure side made of PVC-U or PP
- Seals made of EPDM or FPM

- Connection suction side: External thread of pump's suction valve
- Connection pressure side: External thread of final shut-off valve

COMPACT DOSING UNITS, VERTICAL DESIGN CVD2



OVERVIEW

- The most modern pump technology
- Standardized mounting plates
- Space-saving wall mounting
- Wide range of applications
- High safety standard
- Large range of capacity
- High dosing accuracy
- Easy to operate
- Low maintenance
- Complete range of accessories

TECHNICAL DATA

| UNIT DATA | | CVD2-60.1 | CVD2-550.1 | CVD2-1500.1 |
|------------------------------|-----------|-----------|------------|-------------|
| Flow capacity | l/h | 2x 0 - 60 | 2x 0 - 550 | 2x 0 - 1500 |
| Permissible counter pressure | bar (max) | 10 | 8 | 5 |
| Permissible suction head | mWC (max) | 3 | 3 | 3 |
| Number of pumps | Quantity | 2 | 2 | 2 |

BASIC DESIGNS

CVD 2

2x Dosing pump

2-way shut-off valve on the pressure side (Shut off/Emptying)

Diaphragm relief valves

Wall mounting plat made of PP (H=1.500mm, with drip pan)

Piping on pressure side made of PVC-U or PP

Seals made of EPDM or FPM

Connection suction side: External thread of pump's suction valve

Connection pressure side: External thread of final shut-off valve

COMPACT DOSING STATIONS CTD



OVERVIEW

- Standardized dosing tanks
- Space-saving wall mounting
- Wide range of applications
- High safety standard
- High quality materials
- Easy to operate
- Low maintenance
- Complete range of accessories

TECHNICAL DATA

| UNIT DATA | | CTD - ... | | | | | | |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | .. 40.1 | .. 75.1 | .. 100.1 | .. 200.1 | .. 300.1 | .. 500.1 | .. 1000.1 |
| Tank volume | Litres | 40 | 75 | 100 | 200 | 300 | 500 | 1.000 |
| Flow capacity | l/h | 0,4...35 | 0,4...180 | 0,4...180 | 0,4...570 | 0,4...570 | 0,4...570 | 0,4...570 |
| Permissible counterpressure | bar (max) | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Nominal width of suction lance | DN | 5 | 5/10 | 5/10 | 5/10/15 | 5/10/15 | 5/10/15 | 5/10/15 |

BASIC DESIGNS

CTD

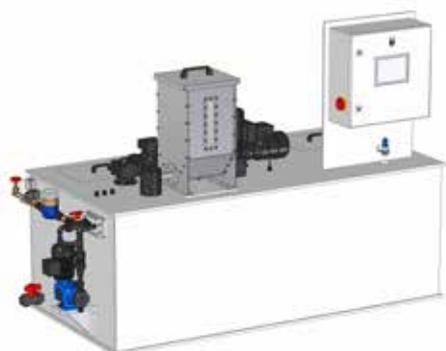
Dosing tank (PE-transparent) with litre scale and cover (DIN162)

Suction lance with foot valve and sieve

Ventilation- / exhaust bow with hose nozzle

Brackets for floor mounting

PREPARATION UNIT FOR POLYMERS, POLYLINE FLOW



OVERVIEW

- Fully automatic preparation of organic flocculent aid (pulverized and/or liquid)
- Process logic control (PLC)
- Selectable concentration of prepared solution
- Feeding device
- Dry material feeder with thermal protection zone
- Pump for liquid polymer (option)
- Dissolving water unit
- Electric agitators
- Performance graduation that meets the requirements

TECHNICAL DATA

| DEFINITION of the types | | |
|-------------------------|-------------------|---|
| PolyLine ... S | S = solid | for preparation with polymer in powder form |
| PolyLine ... L | L = liquid | for preparation with liquid polymer |
| PolyLine ... SL | SL = solid/liquid | for preparation with polymer in powder form and/or liquid polymer |

| UNIT DATA | | PolyLine Flow 500 | PolyLine Flow 1000 | PolyLine Flow 2000 | PolyLine Flow 4000 | PolyLine Flow 8000 | |
|---|-----|-------------------|--------------------|--------------------|--------------------|--------------------|-----|
| Preparation capacity (at 45 min. maturing time) | l/h | 500 | 1.000 | 2.000 | 4.000 | 8.000 | |
| Weight (empty) | kg | S | 250 | 270 | 300 | 380 | 470 |
| | | L | 230 | 240 | 280 | 360 | 450 |
| | | SL | 270 | 290 | 340 | 410 | 520 |

| ELECTRICAL DATA | | PolyLine Flow ... S/L/SL |
|-------------------|------------------|--------------------------|
| Supply voltage | | ~3/400 V /Hz + N + PE |
| Power consumption | approx. kW | 2,0 |
| Control voltage | V DC | 24 |
| Enclosure | Control cabinet | IP 54 |
| | electr. consumer | IP 55 |

BASIC DESIGNS

PolyLine Flow S

3-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Feeding device

2x electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Flow L

3-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dosing pump for liquid polymer

Feeding device

2x electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Flow SL

3-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Dosing pump for liquid polymer

Feeding device

2x electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

PREPARATION UNIT FOR POLYMERS, POLYLINE SWING



OVERVIEW

- Fully automatic preparation of organic flocculent aid (pulverized and/or liquid)
- Process logic control (PLC)
- Selectable concentration of prepared solution
- Feeding device
- Dry material feeder with thermal protection zone
- Pump for liquid polymer (option)
- Dissolving water unit
- Electric agitators
- Performance graduation that meets the requirements

TECHNICAL DATA

| DEFINITION of the types | | |
|-------------------------|-------------------|---|
| PolyLine ... S | S = solid | for preparation with polymer in powder form |
| PolyLine ... L | L = liquid | for preparation with liquid polymer |
| PolyLine ... SL | SL = solid/liquid | for preparation with polymer in powder form and/or liquid polymer |

| UNIT DATA | | PolyLine Swing 500 | PolyLine Swing 1000 | PolyLine Swing 2000 | PolyLine Swing 4000 | |
|---|-----|--------------------|---------------------|---------------------|---------------------|-----|
| Preparation capacity (at 30 min. maturing time) | l/h | 500 | 1.000 | 2.000 | 4.000 | |
| Weight (empty) | kg | S | 240 | 240 | 280 | 460 |
| | | L | 230 | 230 | 260 | 440 |
| | | SL | 260 | 260 | 295 | 480 |

| ELECTRICAL DATA | | PolyLine Swing ... S/L/SL |
|-------------------|------------------|---------------------------|
| Supply voltage | | ~3/400 V /Hz + N + PE |
| Power consumption | approx. kW | 2,0 |
| Control voltage | V DC | 24 |
| Enclosure | control cabinet | IP 54 |
| | electr. consumer | IP 55 |

BASIC DESIGNS

PolyLine Swing S

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Feeding device

2x electric agitator (low speed)

2x Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Swing L

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dosing pump for liquid polymer

Feeding device

2x electric agitator (low speed)

2x Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Swing SL

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Dosing pump for liquid polymer

Feeding device

2x electric agitator (low speed)

2x Level monitoring

Dissolving water unit

Language on display de/en

PREPARATION UNIT FOR POLYMERS, POLYLINE DOUBLE



OVERVIEW

- Fully automatic preparation of organic flocculent aid (pulverized and/or liquid)
- Process logic control (PLC)
- Selectable concentration of prepared solution
- Feeding device
- Dry material feeder with thermal protection zone
- Pump for liquid polymer (option)
- Dissolving water unit
- Electric agitator
- Performance graduation that meets the requirements

TECHNICAL DATA

| DEFINITION of the types | | |
|-------------------------|-------------------|---|
| PolyLine ... S | S = solid | for preparation with polymer in powder form |
| PolyLine ... L | L = liquid | for preparation with liquid polymer |
| PolyLine ... SL | SL = solid/liquid | for preparation with polymer in powder form and/or liquid polymer |

| UNIT DATA | | PolyLine Double 500 | PolyLine Double 1000 | PolyLine Double 2000 | |
|---|-----|---------------------|----------------------|----------------------|-----|
| Preparation capacity (at 45 min. maturing time) | l/h | 500 | 1.000 | 2.000 | |
| Weight (empty) | kg | S | 200 | 240 | 325 |
| | | L | 160 | 200 | 285 |
| | | SL | 210 | 250 | 335 |

| ELECTRICAL DATA | | PolyLine Double ... S/L/SL |
|-------------------|------------------|----------------------------|
| Supply voltage | | ~3/400 V /Hz + N + PE |
| Power consumption | approx. kW | 2,0 |
| Control voltage | V DC | 24 |
| Enclosure | control cabinet | IP 54 |
| | electr. consumer | IP 55 |

BASIC DESIGNS

PolyLine Double S

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Feeding device

Electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Double L

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dosing pump for liquid polymer

Feeding device

Electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

PolyLine Double SL

2-Chamber tank made of PP

Control (PLC) for fully automatic preparation

Dry material feeder (DMF) with hopper, 25 liters

Dosing pump for liquid polymer

Feeding device

Electric agitator (low speed)

Level monitoring

Dissolving water unit

Language on display de/en

CUSTOMER SOLUTIONS

Our competence for your success

The requirements and dosing processes of our customers are extremely varied in the area of industrial and process solutions. Individual challenges must be identified and solved.

As a system provider of dosing technology, **sera** is able to understand these different processes and develop tailor-made solutions to meet any customer requirements.

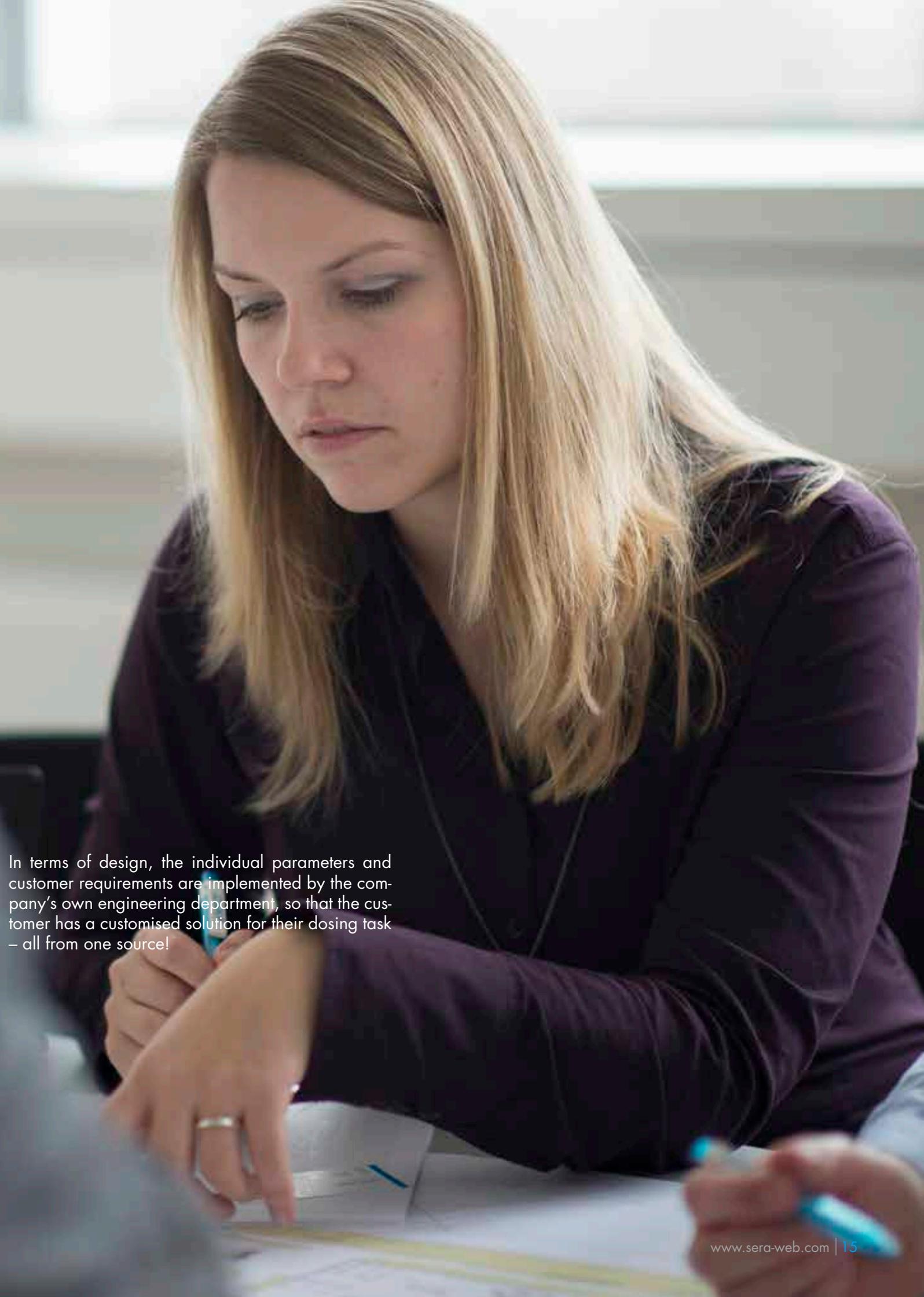
Particular attention is devoted to considering the interfaces:

For which point in the customised process are our solutions intended and how can they be integrated smoothly?

Only when these essential questions have been answered a smooth project management can be ensured for the customer.

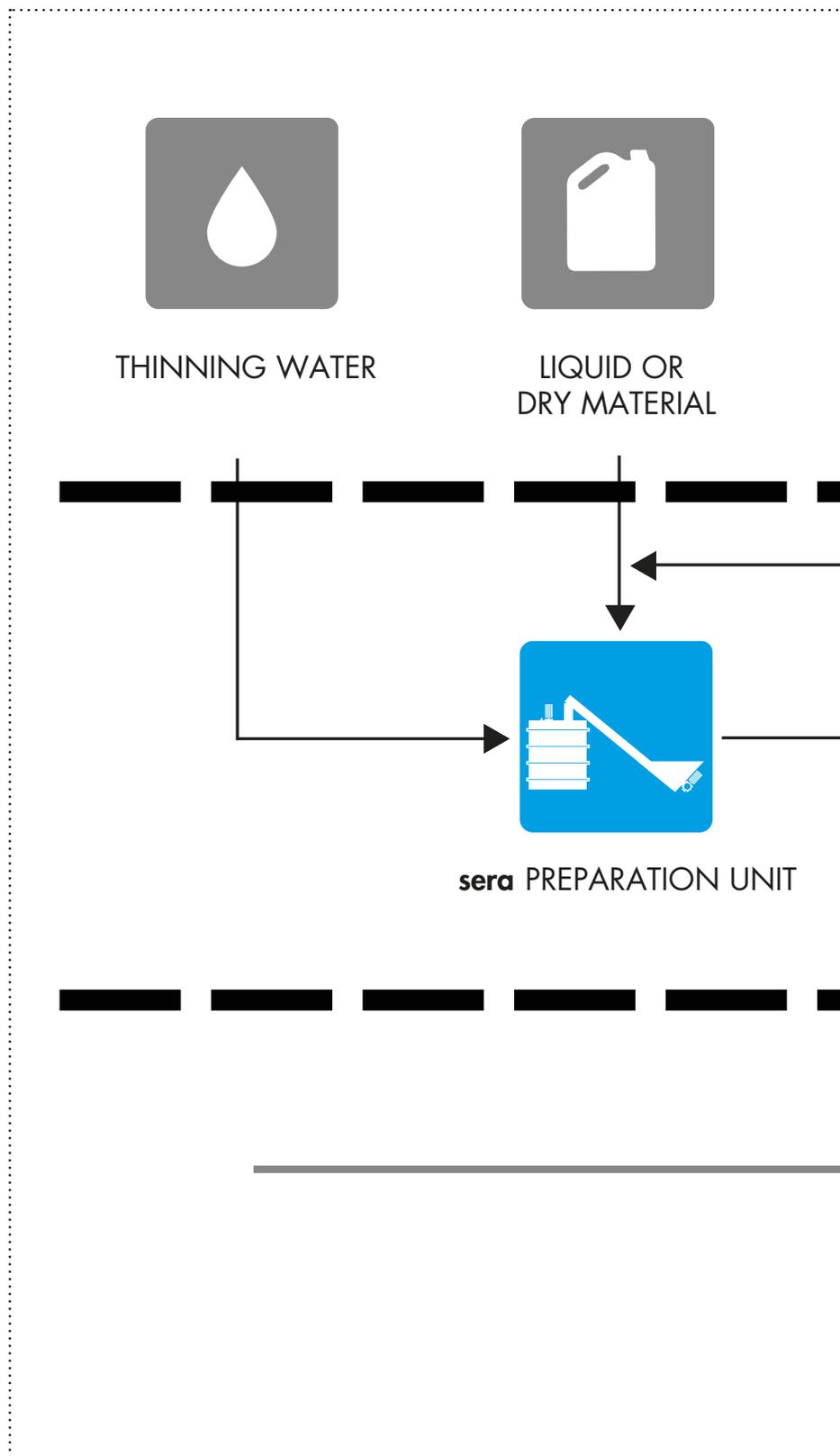
sera is able to draw on a multitude of product solutions that it has developed itself to complete various dosing tasks, such as preparation and dosing stations with the associated dosing pumps and appropriate accessories.

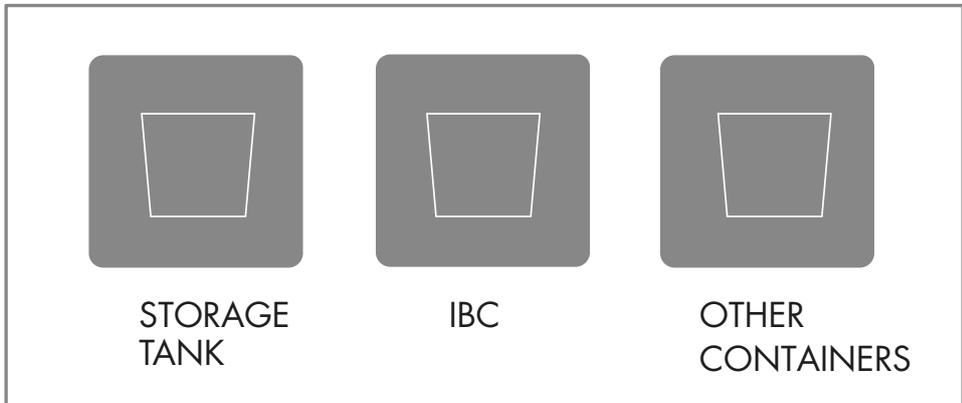
A decision is made in each case about which components are actually required to complete the dosing task and which are not. As a result, the dosing systems are adapted to the needs of the specific application.



In terms of design, the individual parameters and customer requirements are implemented by the company's own engineering department, so that the customer has a customised solution for their dosing task – all from one source!

INDUSTRY- AND PROCESS SOLUTIONS





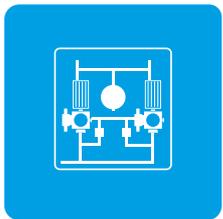
STARTING MATERIALS



sera
TRANSFER PUMP OR DRY
MATERIAL FEEDER



sera
SUCTION FITTINGS



sera DOSING SYSTEM



sera
INJECTION FITTINGS

**sera
PRODUCT SOLUTIONS**



CUSTOMISED
PROCESS

CUSTOMER PROCESS

EXAMPLES OF CUSTOMISED SOLUTIONS



SERA MIXING AND DOSING STATION FOR CAUSTIC SODA FOR THE POWER PLANT SECTOR

- **sera** multi-layer diaphragm pumps in a redundant design for maximum process safety
- Safety valves designed to protect the pump and pipes from excessive pressure



- A concentrated (50%) solution of NaOH is diluted to the desired concentration in a 3,000-litre storage tank of water
- A collecting basin features country-specific approval for safe operation



- An agitator produces a homogeneous solution
- Fluid level and temperature gauges for safe, uninterrupted plant operation

PORTABLE MIXING AND DOSING STATION FOR THE CHEMICALS INDUSTRY

- Mobile platform truck with 100-litre dosing tank featuring agitator, fluid level gauge and other fittings
- Centrifugal pump for the transfer of chemicals during the customer process
- Collecting basin in case of leakage
- Control panel for on-site operation



PRESSURE BOOSTING UNIT FOR ADBLUE IN THE AUTOMOTIVE INDUSTRY

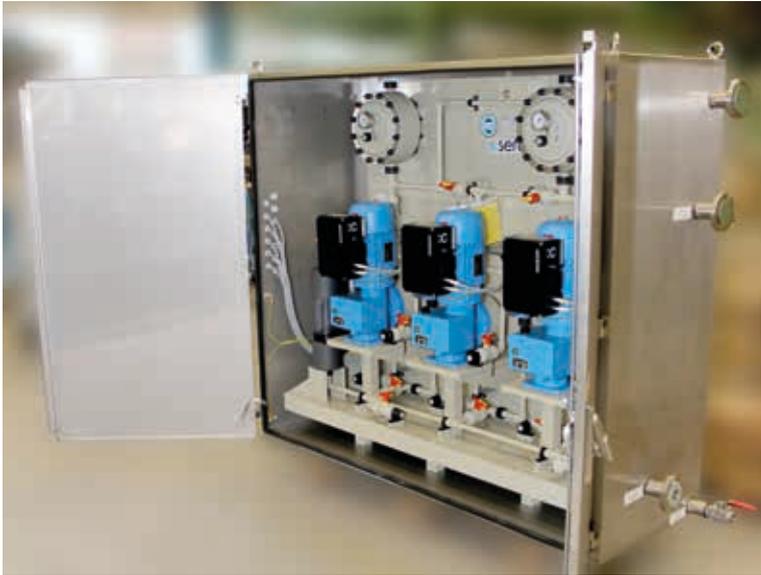
- Dosing unit for the automotive sector (urea)
- Two three-headed pumps type MK/MF/MK410.2-1450e



- Maximum flow rate of 4,350 l/h per pump with low pulsation
- Safe operation and easy service thanks to two electric diaphragm valves and a number of ball cocks



EXAMPLES OF CUSTOMISED SOLUTIONS



DOSING UNIT FOR WASTEWATER TREATMENT IN A CLOSED STAINLESS STEEL SAFETY CABINET

- Closed safety cabinet made of stainless steel for maximum protection against environmental factors
- External suction and pressure connections and cable terminal boxes make up the main electrical interface of the unit



- Two dosing lines with an additional stand-by pump to increase system availability
- Multi-layer diaphragm pump with built-on frequency converter to set variable flow rates
- Pulsation damper to regulate the flow rate and reduce fluctuations in the piping system
- Rinsing and ventilating connections for easy commissioning and safe maintenance of the plant



DOSING CONTAINER FOR AMMONIA WATER

- Dosing container with special coating for saline ambient air
- Climate-control system to keep interior temperatures constant
- Dosing unit for aqueous ammonia with multi-layer diaphragm pumps

PREPARATION AND DOSING UNITS FOR POLYMER SOLUTIONS IN A CLOSED CONTAINER

- Weather-protected and heat-insulated container unit including heating system, lighting and ventilation
- Container contains a 3-chamber polymer continuous flow systems (type: **sera** PolyLine Flow 2000 S)
- Dry material feeder with small-parts conveyor device and 200-litre storage tank for dry polymer
- Two eccentric worm pumps with frequency converters to inject the polymer solution to the process
- Entire unit features central control cabinet (SPS technology) including customised programming



EXAMPLES OF CUSTOMISED SOLUTIONS



DOSING OF H₂SO₄ 96%

- Dosing systems with innovative multiphase motor pumps and flow measurement for maximum precision
- System piping made of stainless steel with stand-by construction and design
- Maximum safety thanks to splash guard, intelligent diaphragm monitoring and operating condition notifications



DOSING OF AMMONIA SOLUTIONS AT POWER PLANTS

- All-in-one dosing station on a gridiron with collecting basin
- Two high-pressure pumps with multilayer diaphragm technology ensure optimal dosing precision
- Stainless steel preparation tank and control cabinet for automatic operation of the systems



CONTAINER FOR DOSING TRISODIUM PHOSPHATE AT POWER PLANTS

- Two completely assembled dosing systems with collecting basins in one container with double doors
- Location can be determined by customer; easy to retrofit
- Dosing stations with two dosing/metering pumps each and one preparation pump to ensure optimal availability of chemicals

DOSING PHYTASE

- Complete dosing units with downstream spraying units to supply phytase during pellet production
- Plastic dosing tank with level monitoring and collecting basins
- High dosing accuracy thanks to diaphragm pump with electrical operation via a 4..20mA signal.
- Measures exact dosing quantities with Coriolis flow meter



DOSING OXYGEN BINDERS

- Compact dosing pallet with drip tray and optional splash guard for dosing oxygen binders for steam generators
- Easy plug-and-dose design
- Dosing system with relief valve and pulsation damper for an even flow rate



DOSING SYSTEM FOR DEXTRIN

- Diaphragm pumps with stainless steel heads, 1450l/h capacity, in a stand-by design
- Stainless steel frame construction for floor installation with drip tray and piping in stainless steel
- Pressure manometer and stainless steel pulsation damper for ideal operation





BONN - WASTE RECYCLING

Recycling of the waste from Bonn and the surrounding region is carried out by Müllverwertungsanlage Bonn GmbH (MVA), a subsidiary of Stadtwerke Bonn (Bonn Public Utilities). Over 1,000 tonnes of waste, which has to be disposed of in a safe and environmentally friendly way, is delivered to it every working day. In a complex thermal process, the waste is first incinerated and then processed. Flue gases are created when the refuse is burnt.

Their energy is recovered by means of a boiler or steam generator that is downstream from the incineration process. As the hot flue gases flow through the boiler, they are cooled down, while the boiler feed water heats up and evaporates. The steam created is then used to generate electricity and heat. In the downstream condenser, the steam is liquefied again and returned to the feed water.

The feed and boiler water must meet certain requirements to be able to operate a boiler safely and without causing damage.

sera designed and supplied a special dosing system for the boiler plant at MVA Bonn. Two independent dosing systems for caustic soda and ammonia solution have been installed in this plant, which condition the boiler water in such a way that it corresponds to the specifications of the VGB guidelines for power station operation. Both systems have dosing pumps, fittings, 500 litre batching tanks, fill level sensors, collecting basins and space for delivery containers. As ammonia solution is a volatile chemical, this part of the system has a gas-tight design. A shared con-

trol cabinet monitors the two dosing systems and provides information to the control centre at MVA Bonn. Decentralised monitoring and control of the systems is therefore possible.

The application solutions are both made fully automatically and with level monitoring from a mixture of concentrate and water. Dosing of the prepared solutions is carried out with controllable **sera** diaphragm and/or piston pumps. The demand on and adjustment of the pumping capacities depend on the operation of the higher level system parts.

sera dosing pumps ensure that there is a consistent pH value in the boiler feed water by adding caustic soda and that the condensate has a pH value of approx. 9.5 to protect the feed water and condensate pipes.

In this way, the boiler and pipes in the thermal section of the MVA have the optimal permanent corrosion protection.





PHNOM PENH - HEINEKEN BREWERY

Approximately 50 million tons of caustic soda are produced annually and used in various ways in industry. **sera** has developed a cost-effective system solution specifically for use in the food industry, which has a variable but large demand for alkaline cleaning agents such as caustic soda. This enables safe and efficient preparation of caustic soda based on sodium hydroxide (NaOH) in solid form (pellets, flakes, pearls or powder) and water.

Breweries use caustic soda particularly because it is cost-effective: transport, delivery and storage of goods in sacks with undissolved solids is significantly less expensive than ready-made solutions. The extensive building work which is required to accommodate delivery of ready-made solutions in tankers containing hazardous substances is also unnecessary. Above all, however, the well-known suppliers in the drinks industry value the flexibility that they have with their own preparation unit: solutions are prepared as required and their concentration can be adjusted by increasing or lowering the amount of solid materials added.

These factors also played a part in the decision of Heineken, the operator of the Cambodia Brewery Ltd. in Phnom Penh, to go back to a caustic soda preparation unit in its renovation of the brewery in 2016.

The system supplied consists of a stainless steel batching tank, an agitator and a special conveyor that is separate from the batching tank. The convey-

or consists of a feed hopper and a stainless steel screw-conveyor that carries the solid materials to the batching tank. With this design, the operating personnel are not in the immediate danger area of the batching tank in which the solid matter reacts exothermically with water.

The batching tank has a level indicator with a shut-off valve, a temperature display and a pipe safety cage to prevent accidental physical contact. The prepared solution is transferred into a larger storage tank either by a **sera** refilling system.

A **sera** CVD (Compact Vertical Dosing) system with a modular design is also provided to remove the solution from the storage tank and feed it precisely into the cleaning process.

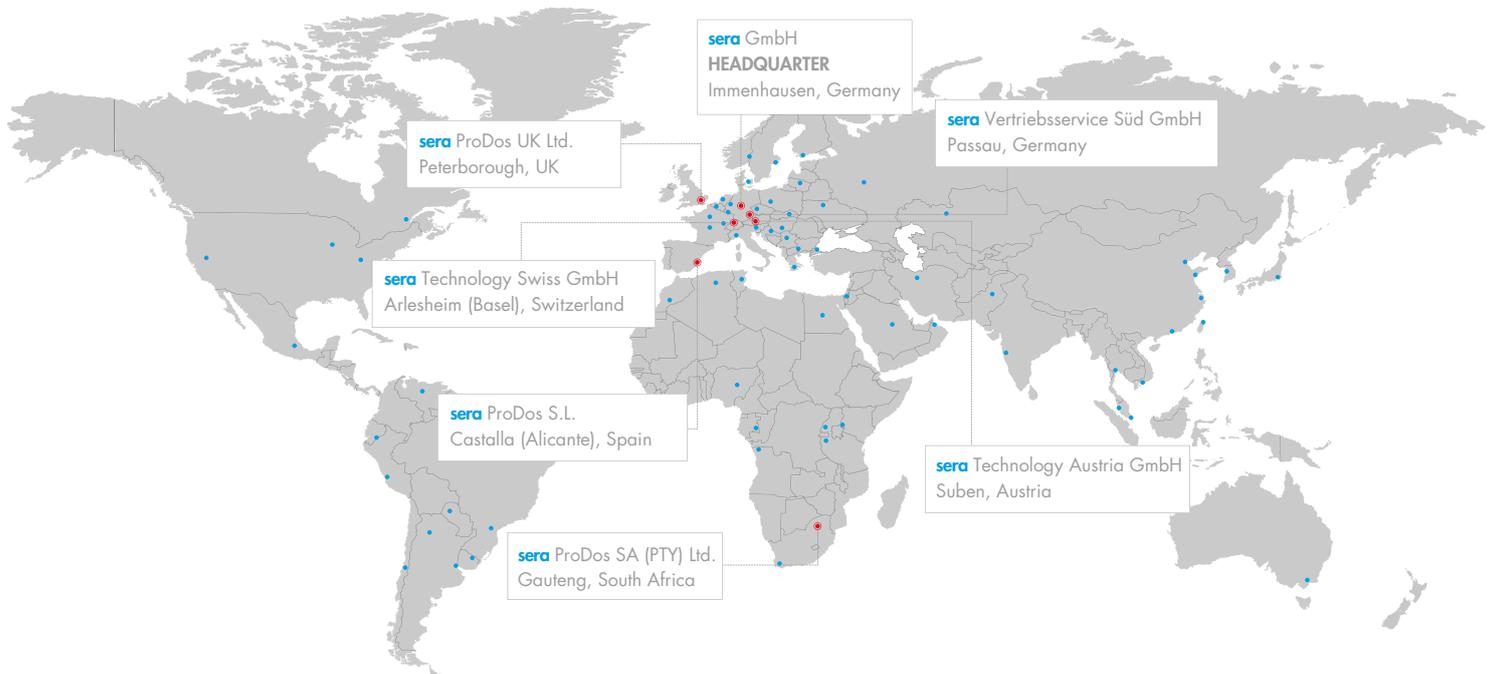




CUSTOM SOLUTIONS FOR YOUR APPLICATIONS

Often standard dosing systems cannot adequately meet specific requirements.

Developing customised solutions is one of our strengths. Our application engineers work with you to develop your very own customised solution for your specific application.



WORKING FOR YOU WORLDWIDE

Your sera contacts

With headquarters in Germany and subsidiaries in Austria, the UK, Spain, Switzerland and South Africa, as well as a global sales and service network with over 30 partners in more than 80 countries all over the world, **sera** guarantees the best possible customer care on-site.

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

sera Vertriebsservice Süd GmbH
Dr. Ernst-Derra-Straße 8
94036 Passau
Germany

Tel.: +49 851 956099-0
Fax: +49 851 956099-20

sales.sued@sera-web.com
www.sera-web.com

sera Technology Austria GmbH
Eitzelshofen 135
A-4975 Suben
Austria

Tel.: +43 7711 31777-0
Fax: +43 7711 31777-20

sales.at@sera-web.com
www.sera-web.com

sera Technology Swiss GmbH
Altenmatteweg 5
CH-4144 Arlesheim
Switzerland

Tel.: +41 61 51142-60
Fax: +41 61 51142-61

info.ch@sera-web.com
www.sera-web.com

sera ProDos UK Ltd.
Axon 2, Commerce Road,
Lynchwood
Peterborough, PE2 6LR
United Kingdom

Tel.: +44 1733 396040
Fax: +44 1733 396050

sales.uk@sera-web.com
www.sera-web.com

sera ProDos SA (PTY) Ltd.
Unit 3-4, Airborne Park
Cnr Empire & Taljaard Str
Bartletts, Boksburg, 1459
Gauteng, South Africa

Tel : +27 11 397 5120
Fax : +27 11 397 5502

sales.za@sera-web.com
www.sera-web.com

sera ProDos S.L.
Calle Cocentaina n°8,
03420, Castalla (Alicante)
Spain

Mob: +34 610 418898

sales.es@sera-web.com
www.sera-web.com

