A close-up photograph of a woman with brown hair, wearing a white lab coat and clear safety goggles. She is holding a glass beaker filled with a bright blue liquid, and the liquid is being poured out. The background is a soft, out-of-focus light blue.

BORNEMANN PUMPS FOR THE CHEMICAL INDUSTRY

SOLUTIONS FOR
DEMANDING APPLICATIONS

FOR DEMANDING SOLUTIONS BORNEMANN PUMPS ARE THE TOOLS OF CHOICE

Plastics and chemicals have become a major part of our surrounding. Chemicals abound in almost all walks of life. There's hardly an end product today that does not incorporate chemical additives. Production of base chemicals, petrochemicals, polymers and fine and specialty chemicals entails complex processes.

Hazardous substances, high pressures, and the risk of explosion are part and parcel of everyday work in the chemical industry and result in the highest safety requirements for people, plants, machines, and the environment.

Processes are constantly being optimized in regard to productivity and energy

efficiency. In this field where Bornemann is your expert partner.

Bornemann pumps meet the most stringent requirements even in complex processes and are always a profitable solution. They reliably deliver both low- and high-viscosity media, also with non-Newtonian viscosity and aggressive and abrasive media.



In the chemical industry, Bornemann pumps are employed in highly specialized fields of application. The properties of the media to be delivered often change over the course of the production process. It is in this field that Bornemann twin-screw pumps are renowned for their flexibility and up time. Thanks to their speed control, they can be optimally adjusted to the

respective consistency of the medium. New technologies and processes, shifting demands, and intense competition – increasing your knowledge is a constant necessity. Bornemann is your expert partner when it comes to exploring even the most unconventional solutions – the insider's choice among specialists!



BORNEMANN TWIN-SCREW PUMPS – TECHNICAL EXPERTISE AND MAXIMUM FLEXIBILITY

Bornemann twin-screw pumps are rotating positive-displacement pumps; timing gears and bearings are outside the displacement chamber.

Bornemann twin-screw pumps are self-priming. The pumps deliver the pumped

medium through the pump housing without contact to metal.

During rotation, the feed screws form, together with the surrounding pump housing, the individual pump chambers that continually move toward the pressure

chamber in accordance with the respective feed screw flank lead and direction of rotation. Thanks to the arrangement of the pump elements, the delivery direction is reversible simply by reversing the shaft rotation. Axial delivery results in smooth, low-pulsation pumping. Products

THE IDEAL SOLUTION FOR ALL APPLICATIONS IN THE CHEMICAL INDUSTRY

sensitive to shear are subjected to hardly any stresses during delivery, thus ensuring that the media retain their volumes, look, and properties. The shafts and the feed screws are separate components. Around 80 design versions are available. A variety of materials, sizes, shapes, and

sealing variants provide the ideal solution for any application.

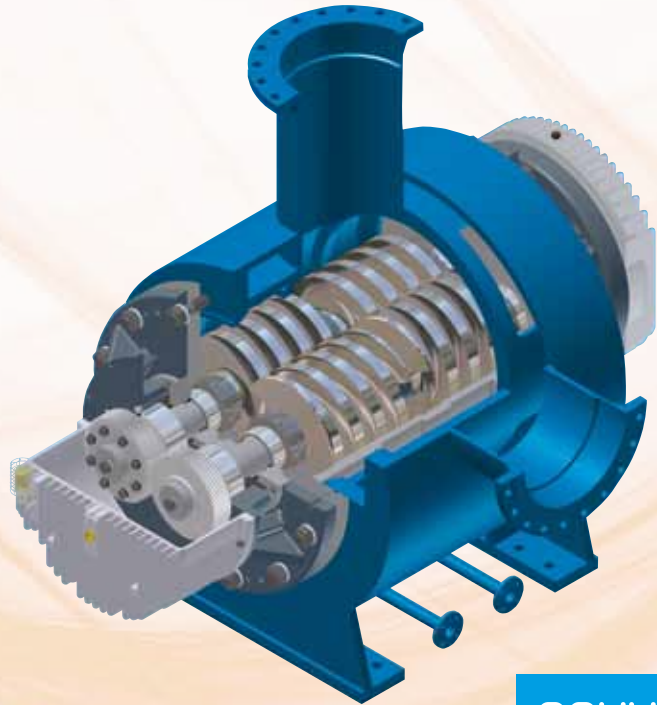
Bornemann twin-screw pumps are ideally suited for delivering media in systems processing low- and high-viscosity products. All media – neutral, alkaline, or

acidic, aggressive, abrasive, or volatile – are safely aspirated, dosed, and pumped. The benefits of a twin-screw pump are operating safety, reliability, consistent performance, long service life, and low operating costs.

	Capacity		Differential pressure		Viscosity	Max. Product Temperature	
	m³/h	gpm	bar	psi	mm²/s cSt	°C	°F
W/V universal pump	10 - 2,800	50 - 12,300	up to 40/60	up to 600/900	0,5 - 200,000	up to 350	up to 660
SLI Compact pump	up to 180	up to 790	up to 16 (20)	up to 230	up to 500,000	up to 180	up to 350
SLH sanitary pump	up to 180	up to 790	up to 16 (20)	up to 230	up to 500,000	up to 180	up to 350

APPLICATIONS

- Universally applicable for transfer, dosing, processing and unloading
- Paint industry
- Construction chemistry
- Finished products (e.g. paints, water-soluble varnishes and varnishes containing solvents, isocyanates, glues)
- Raw materials (e.g. resins, polyols, binders, solvents)
- Petrochemicals



W/V universal pump



SLI compact pump



SLH sanitary pump

The Type W twin-screw pump distinguishes itself through a wide range of applications as well as its flexibility. The many options available guarantee optimal adaptation to your processes.

CONVINCING BENEFITS

- Bornemann twin-screw pumps are equally suited to delivering high- and low-viscosity products
- Non-contact pump elements
- Dry operation possible
- Low-pulsation and low product stresses
- Adaptation to changing process parameters thanks to speed control

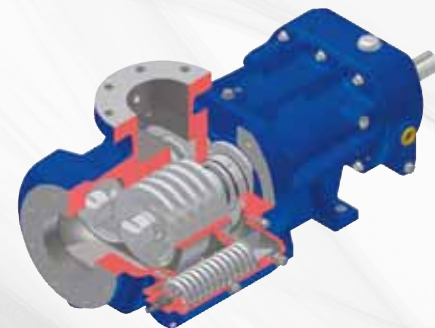
- ATEX and TA Luft compliant designs available
- Self-priming, outstanding aspiration power
- High delivery rate and pressure range
- Numerous application-specific options

BORNEMANN TWIN-SCREW PUMPS, THE MODULAR SYSTEMATIC SOLUTION FOR THE CHEMICAL INDUSTRY

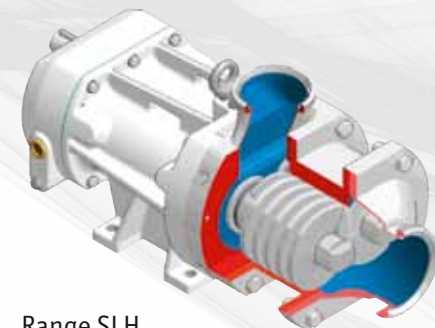
Bornemann SLI and SLH twin-screw pumps offer a range of convincing benefits that combine to provide maximum profitability. Using a modular system with three or four pump sizes and various auger flank leads, Bornemann is able to cover a delivery range of 0,5 m³/h to 180 m³/h. The various flank leads allow adap-

tation to the required delivery volume as well as to pressure and viscosity. A single pump can be used to deliver a variety of media. Bornemann SL twin-screw pumps operate at speeds up to 3,600 rpm. The wide range facilitates both production processes as well as purging and cleaning processes using only a single pump

and increases flexibility in application regarding differing viscosities, temperatures, operating pressures, and other significant criteria for efficient and thus profitable production. The SLH pumps are EHEDG and 3A certified and produce excellent cleaning and hygiene results.



Range SLI with bypass



Range SLH



SLI/SLH RANGE MODULAR SYSTEM

- Bornemann twin-screw pumps are equally suited to delivering high- and low-viscosity products
- Non-contact pump elements
- Dry operation possible
- Low-pulsation and low product stresses
- Adaptation to changing process parameters thanks to speed control
- ATEX and TA Luft compliant designs available
- Self-priming, outstanding aspiration power
- Modular system provides for flexible adaptation and benefits in spare part availability
- Single-flow design simplifies disassembly and maintenance

OUR PUMPS CAN FILL EVEN THE SMALLEST NICHE



PUMP SOLUTIONS
FOR BULK
CHEMICALS



BORNEMANN
EVEN FOR FINE
CHEMICALS



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CHEMISTRY



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