

## UNIQUE SOLUTIONS MADE BY THE SPECIALIST



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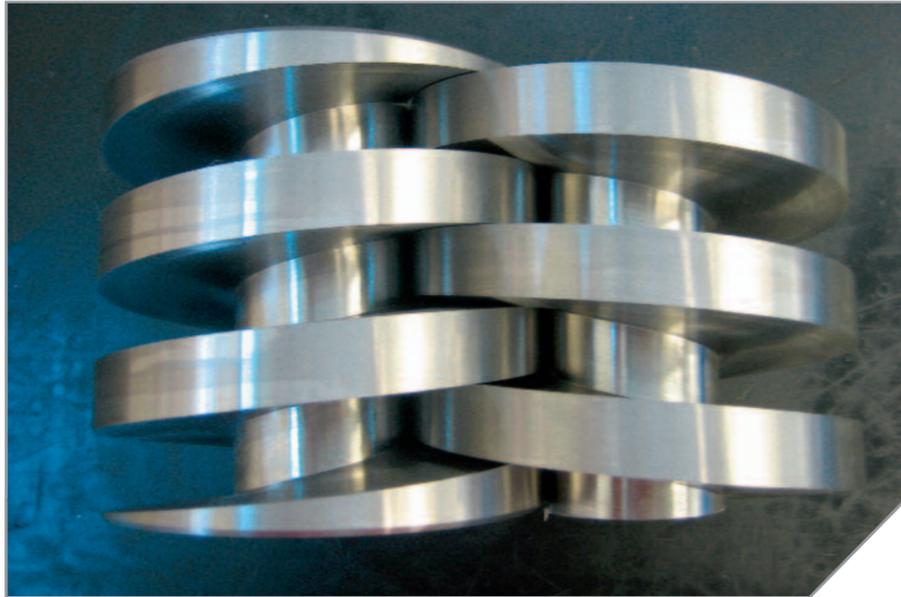
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# BORNEMANN PUMPS FOR FOOD, PHARMACEUTICALS AND MORE

## THE STANDARD IN SANITARY PUMPS



# MODULAR SYSTEM

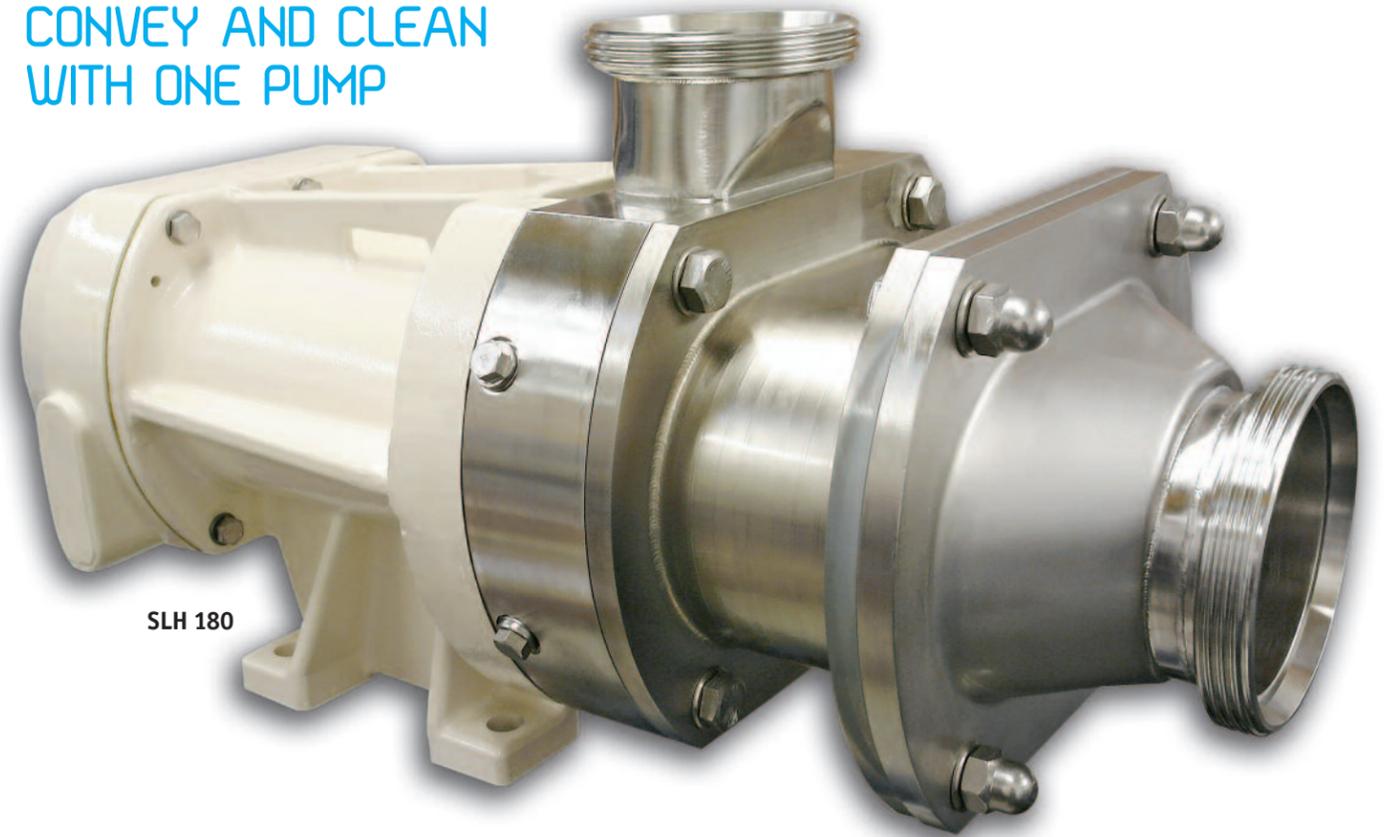


Bornemann SLH twin screw pumps are single-flow and self-priming. Two contact-free intermeshing screws and the pump housing form closed chambers that, according to the direction of rotation, constantly move towards the pressure discharge end of the pump. This axial system enables cautious, low-pulsation conveyance. It protects the media and maintains size, surface and visual integrity of the products.

The 2-in-1 principle conveys and cleans in one pump. Due to the wide range of pump speeds – up to a maximum of 3,600 rpm, process cycles as well as CIP and SIP procedures are possible with just one pump.

The advantages are obvious: no need for a CIP pump or the associated piping, valve and MSR technology. It saves valuable space and reduces your investment costs. The conveyed material passes through the entire pump which enables excellent cleaning and hygienic results. The Bornemann SLH pump is EHEDG and 3A certified.

## 2-in-1 CONVEY AND CLEAN WITH ONE PUMP



SLH 180

- Self-priming down to a vacuum of less than -0.8 bar when the pump is filled
- Large range of speeds, from below 100 up to 3,600 rpm, make it possible to convey with one pump and also use it as a conveying aggregate
- Excellent cleaning and hygienic properties
- Abrasion-free
- Dry running protection
- Low-pulsation conveyance
- Designed for reverse flow capabilities

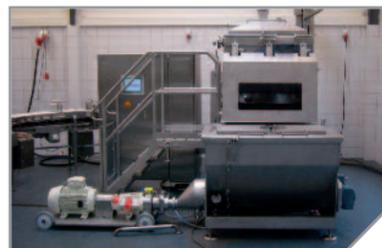
## IMPRESSIVE SPECTRUM OF PERFORMANCE FEATURES



Receipt of goods with mobile pump



Dairy products conveyance



Melted cheese conveyance



Dairy products conveyance



Model SLH pump



Conveyance of high viscous products

# THE SUM OF MANY ADVANTAGES

## SIX REASONS TO BELIEVE

Bornemann SLH pumps provide you with a range of convincing advantages that together result in the highest possible cost and production efficiency.

Using a modular system, Bornemann offers four pump sizes and different screw sets that cover a conveyance range of 40 l/h to 180 m<sup>3</sup>/h with a unit size up to 40 mm diameter. The different screw sizes make it possible to handle a wide range of flow capacities with the same viscosities, operating pressures and rotation speeds.

Quick and easy change of the media.

**1** CIP and SIP – easy cleaning and sterilization

**2** High suction performance for more production efficiency

**3** Smooth and pulsation-free handling for sensitive products

**4** Top resistance to wear leads to safe production and long lifetime

**5** Handles the widest range of viscosities

**6** Adaptable to the medium – flexible implementation

# TECHNICAL DATA

## PERFORMANCE DATA

SLH 50 | SLH 80 | SLH 125 | SLH 180

**Output Capacities:**  
up to 40 l/h – 180 m<sup>3</sup>/h (792 gpm)

**Differential Pressures:**  
up to 16 bar (232 psi)

**Pump Speed:** max. 3,600 rpm

**Viscosity:** max. 500,000 cSt

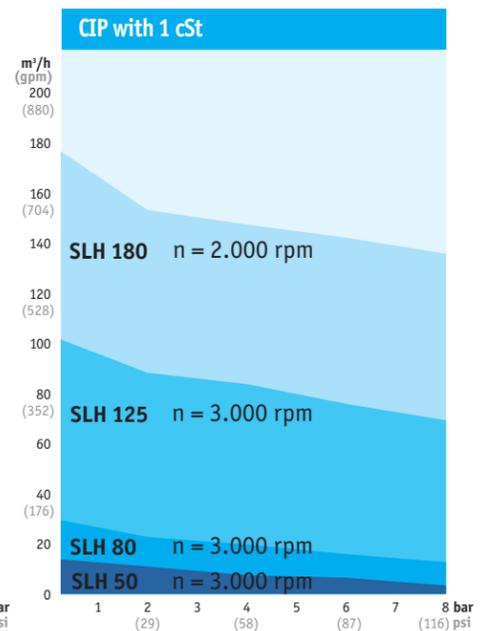
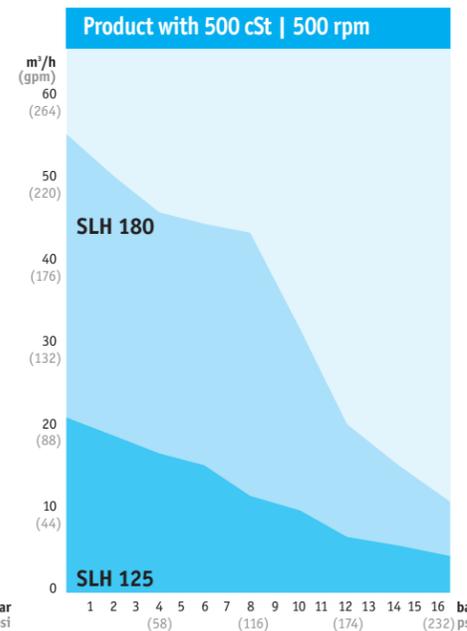
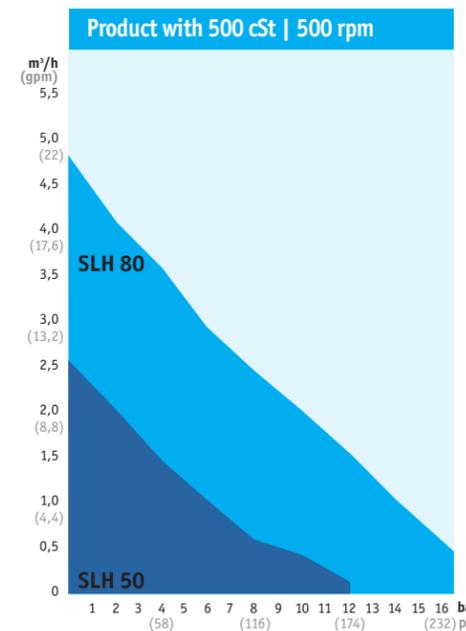
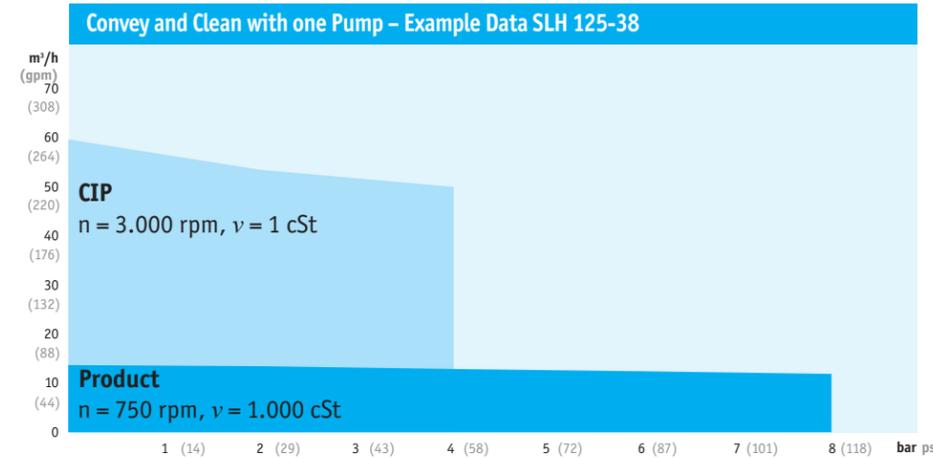
**Direction of Operation:**  
reversible operation

**Flange Connections:**  
dairy connection according to DIN 11851, aseptic connection according to DIN 11864, other connections varieties upon request

**Heating Medium:** various

**Product Temperature:**  
max. 130°C (266°F)

**Cleaning Temperature:**  
up to 140°C (284°F)



## CONVINCING PERFORMANCE



SLH 125



Low abrasion conveyance of toothpaste



Sausage meat conveyance



Cheese conveyance



Yeast conveyance



Beer conveyance

# AN EXEMPLARY CONCEPT

SLH pumps feature no metal-to-metal contact between the pump screws and the housing. This enables the conveyance of non-lubricating or corrosive and contaminated materials. As the pump rotates, the intermeshing of the two screws along with the pump housing form chambers. These chambers fill with the pumped fluid and move it from the suction side of the pump to the higher pressure discharge side of the pump.

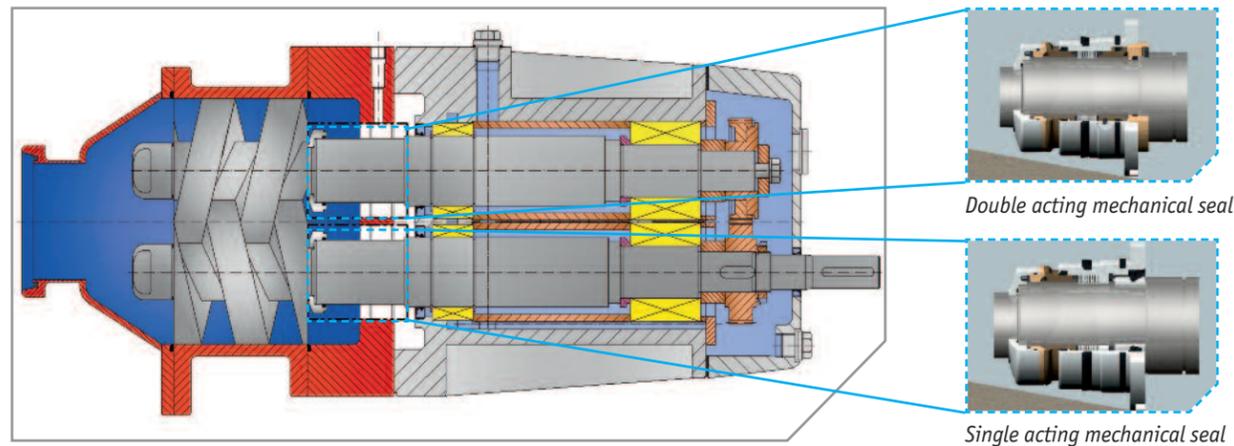
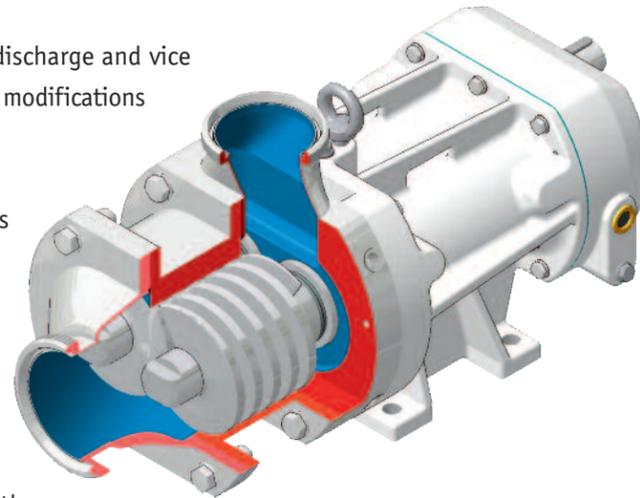
Very flexible: The pump is designed to allow for reverse flow by simply changing the shaft direction. The

suction becomes the discharge and vice versa, all without any modifications to the pump.

Bornemann SLH pumps come with a rotation speed of up to 3,600 rpm. This range makes not only process cycles as well as CIP and SIP

procedures possible with just one pump, but also increases flexibility of use with varying viscosities, temperatures, operating pressures or

other important criteria where efficient and profitable production are the objective.



# BORNEMANN PUMPS FOR FOOD AND MORE...

## BEVERAGE INDUSTRY

- Juices
- Concentrates
- Syrups
- Wines
- Sparkling wine
- Malt extract

## CONVENIENCE

- Oils & greases
- Soups
- Sauces
- Dressings
- Ketchup
- Porridge
- Dough
- Marmalade
- Mousse
- Honey
- Spreads
- Salads
- Meats
- Fish
- Delicacies
- Baby food
- Products in chunky form

## DAIRY PRODUCTS

- Yoghurt
- Quark
- Single cream
- Butter
- Cream
- Pudding
- Desserts
- Concentrates
- Melted cheese
- Curds

## SWEETS

- Chocolate
- Cream
- Fudge
- Molasses
- Liquid sugar
- Raw mixtures
- Fillings

## MEAT PRODUCTS

- Sausage meat
- Sausage prep
- Pet food

## PHARMACEUTICAL INDUSTRY

- Cosmetics
- Raw materials

...AND WHAT INDUSTRY DO YOU CALL HOME?



Beverage industry



Convenience



Dairy products



Sweets



Meat products



Pharmaceutical industry