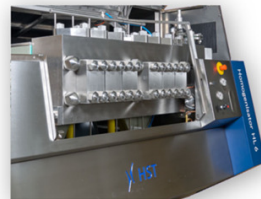


HST Maschinenbau GmbH

Our profile

- Development, design and manufacturing of high pressure homogenizers and high pressure pumps (HPP)
- Commissioning of homogenizers/HPP and personal training
- Spare and wear parts for the installed base (various brands)
- Maintenance on contract base or request
- Application based consulting
- Machine modification and upgrade service



Our strong points

- Decades of experience
- 24/7 service
- Quality assurance
- Handling speed
- Flexibility



DNV-GL

Contacts

Department	Email
Sales and Guidance for Homogenizers	sales@hst-gmbh.com
Technical Order Handling Homogenizers	technik@hst-gmbh.com
Shipping Department	freight@hst-gmbh.com
Service Department	service@hst-gmbh.com
Company Info	info@hst-gmbh.com
Spare Parts / Machine Parts	spares@hst-gmbh.com
Quality Control	qs@hst-gmbh.com
Accounting	buchhaltung@hst-gmbh.com

Service Hotline: +49 (0) 38826 8878 77

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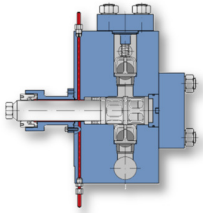
HST Maschinenbau GmbH

High Pressure Homogenizers and High Pressure Pumps

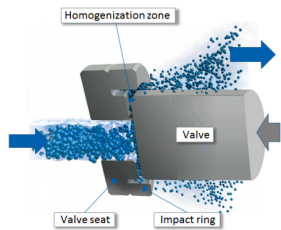


HST Homogenization Technology

Homogenization is an important process step for the processing of dairy products, liquid food, beverages, chemical and pharmaceutical dispersions. It leads to increased product stability, extends shelf life, improves taste, colour, consistency and application profiles. Homogenizing effects can significantly reduce the amount of additives required. Further stabilization mechanisms are generated by the extraction of active substances from the dispersed phase in the dispersion.



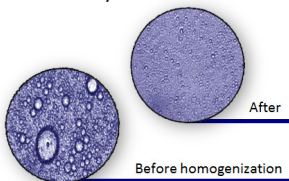
Section view through the pump head



Section view through the homogenizing valve

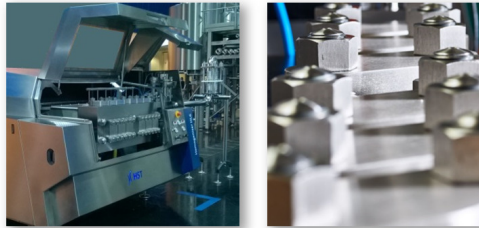
The Homogenizing Concept

The product is passed through the high pressure pump, is compressed and afterwards expanded again in the homogenizing valve. The associated mechanical energy input produces the desired product properties and ensures above all long-term stability.



HST High Pressure Homogenizers

For many years the HST homogenizers has been renowned in the industry as one of highest quality and reliability. HST is also known for a flexible and innovative adaptation of the homogenizing technique to the requirements of the users.



Homogenizer Model HL6

Applications and Products

Dairy/Food/Beverages	Pharma/Chemical/Cosmetics
Fresh milk products	Parenteral emulsions
UHT milk products	Cell suspensions
Baby Food	Drug delivery systems
Ice cream	Wax/Rosin emulsions
Egg products	Lubricant greases
Juices and pulps	Cellulose dispersions
Fruit concentrates	Color suspensions
Spray drying products	Latex compounds
Tomato products	Beauty lotions
Enteral products	Liposomes

Laboratory and Pilot Scale Homogenizers

The homogenization process for new products begins in the laboratory facility. The new HST bench top homogenizers enables the first step for a successful homogenization and will grant you an excellent scale up of the achieved results.



Laboratory Model HLL0 for working pressure up to 1,500 bar

Advantages for your Product and Process

HST Homogenizers and High Pressure Pumps - Standard Delivery Program

Model	Max. Capacity (l/h)									Absorbed Power (kW)
	150 bar	200 bar	250 bar	300 bar	350 bar	550 bar	700 bar	800 bar	1500 bar	
HLL0									10	1,1
HL1	285	285	230	175	175	70	60			3
HL2.5	2,800	2,100	1,700	1,250	1,200	750	360	360		15
HL2	5,800	4,600	3,500	2,500	2,100	1,500	550	500		30
HL3	11,500	10,000	7,500	6,000	6,000	3,000	1,500			55
Tiger10*	17,500	13,000	9,600	8,000	6,600	4,200	2,900			90
HL3.8	17,000	12,000	10,000							90
HL4	24,000	18,000	15,000	12,000	10,500	6,600	4,000			110
HL5	34,000	28,000	21,000	18,000	15,000	9,500	7,500			160
HL6	45,000	35,000	30,500	22,500	19,500	13,500	9,500			220
HL8	60,000	55,000	45,000	35,000	30,000					355

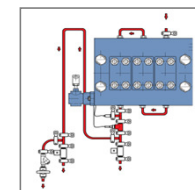
* from 10/2019

Homogenizer Executions

- Single or two stage homogenizing valves
- High efficiency homogenizing valves (HST MultiGap™)
- Hydraulic or pneumatic pressure adjustment
- Sanitary or aseptic execution
- Full automated solution with Siemens or Allen Bradley control unit
- Special Ex-proofed execution according to 2014/34/EC
- Customized pumps and homogenizing valve units



HST MultiGap™



Aseptic Execution



Touch panel for homogenizer control

R&D at HST

- Development of new homogenizer models
- High level hygienic design
- Efficient solutions for various homogenization processes

Spare Parts

All the necessary spare parts for homogenizers are available from our stock. We are also able to deliver spare parts also for your existing homogenizers of other brands.



Service and Maintenance

We specialize in the service for all band homogenizers and will guide you to save TCO value at optimized process conditions.



Homogenizer Model HL4 and HL6