

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

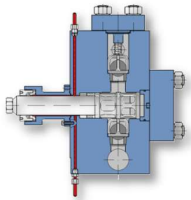


High Pressure Homogenizers and High Pressure Pumps

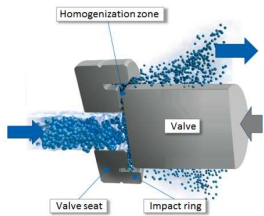


HST Homogenization Technology

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 HLLO for working pressure up to 1,500 bar

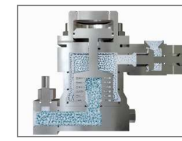
Advantages for your Product and Process

HST Homogenizers and High Pressure Pumps - Standard Delivery Program

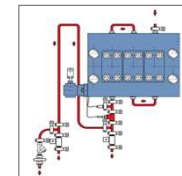
Model	Max. Capacity (gallons per minute)									Max. Motor Power (hp)	
	2,030	2,900	3,625	4,350	5,075	7,975	10,150	11,650	21,750		
HLLO										0.04	1.5
HL1	1.25	1.25	1	0.75	0.75	0.31	0.26	0.24			4
HL2.5	12	8	6.5	5	4	2.5	1.3				20
HL2	24	15	14	11	8.5	5.5	2.2				50
HL3	52	37	29	24	21	13	8				75
HLI55	48	35	27	22	19	12	9				75
HLI75	65	47	37	31	26	16	11				100
HLI90	70	55	40	33	27	17	11				125
HL4	103	70	59	50	41	23	19				200
HL5	169	114	99	83	70	41	33				270
HL6	202	136	118	101	85	48	37				340
HLI8	275	255	210	165	150	85					500

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

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 HL6, HL4 and HLI90

R&D at HST

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