High Pressure Homogenizers

Lab and Pilot Scale
(Process Testing)

HL Series
(Robust Design)

HLE Series
(Budget Conscious)

HLI Series
(Integrated Drive)

HST — Leading Quality and Innovation in Homogenization for Over 20 Years

For more than 20 years HST has been manufacturing quality Homogenizers. They are recognized for their exceptional quality and reliability. HST stands out for its commitment to user needs, offering a unique blend of flexibility and innovative homogenization technology.

HOMOGENIZER STANDARD OPTIONS

- Single or two stage homogenizing valves
- High efficiency homogenizing valves (HST MultiGapTM)
- 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
- Aseptic design available on all Series
- Atex design available on all Series

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

PRODUCT OVERVIEW:

LAB AND PILOT SCALE

- The homogenization process for new products begins in the laboratory.
- These homogenizers enable the first step for a successful homogenization and provide an excellent scale up of the achieved results.

HL SERIES

- Standard series in robust design

Capacity range:

- 5,5 - 250kW (300l/h until 35.000l/h)

HLE SERIES

- Economy series
- Aimed at the low-cost market for small capacities

Capacity range:

- 3-75kW (10.000l/h – 200bar)

HLI SERIES

- Contains an integrated drive to reduce water consumption
- Noise insulation cladding

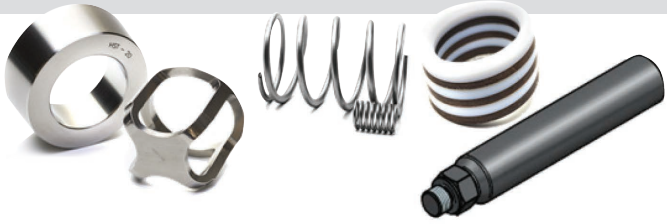
Capacity range:

- 55-90kW (8.000 - 14.000l/h) and 400kW (up to 80.000l/h)

PARTS & SERVICE:

Spare parts for homogenizers are available from our vast inventory.
We also supply spare homogenizer parts for competing brands.

We specialize in service: We have a service team that can repair equipment in the field at your facility. Our team is committed to providing excellent service through a system of evaluation and rebuilding equipment to factory standards.



PRODUCT PERFORMANCE:

Model	Max. Capacity (gallons per minute)									
Max. Pressure (PSI)	2,030	2,900	3,625	4,350	5,075	7,975	10,150	11,650	21,750	Max. Motor Power (hp)
Lab and Pilot Scale										
HLL0									0.04	1.5
HL1	1.25	1.25	1	0.75	0.75	0.31	0.26	0.24		4
HL Series										
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
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
HLI Series										
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
HLI8	275	255	210	165	150	85				500
HLE Series										
HLE3	1	1	.9	0.7	0.4	0.3	0.2	0.2	0.2	4
HLE5.5	4	2			1		.9		.4	7
HLE7.5	5	4			2		1	.5		10
HLE11	9	7		4	3	2	1	.7		15
HLE15	10	9		6	4	3	2	.9		20
HLE18.5	13	11	9	7	6	3	2	2		25
HLE30	19	15	13	10	7	5	3	2		40
HLE37	26	22	18	13	11	7	4	3		50
HLE45	29	26	22	15	12	8	6	4		60
HLE55	44	33	24	20	18	11	7	4		74
HLE75	55	44	35	26	22	13	9	7		101

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