

L-STeaM series

The L-STeaM is a loop-type high volume steam/air fixation unit with integrated steam generator for the fixation of textile dyes.

With temperatures between 100 and 180°C and dwell times from 2 to 30 minutes, the L-STeaM is suitable for all textile dyes. The L-STeaM allows ageing with saturated steam conditions, with temperatures in the range 100 - 105°C, is also suitable for high temperature fixation of disperse dyes at 165 - 180°C and can furthermore be used for hot air fixation of pigment dyes.

The huge forced steam circulation combined with the PLC controlled heating and cooling capabilities, guarantee that the selected temperature is achieved throughout the entire steam chamber with an accuracy of a few tenths of a degree, resulting in an all-over equal and reproducible colour. Regeneration of steam during the forced circulation ensures a low fresh steam consumption.

The L-STeaM consists of a dedicated entry and exit unit which are combined with one or more middle sections. The loop formation and extraction are handled by these dedicated units. The bulk of the fabric is present in the middle section so by adding more units, the total content capacity can be expanded up to several hundred meters.

A PLC enables the full control of the line. During production stops the unit is switched to a standby level thereby decreasing the used energy automatically. The unit can be programmed to be left running unattended and to switch off after production has finished.

The standard workflow is from lorry-to-lorry but can be combined with a roll-to-lorry or lorry-to-roll unit as well.

A central steam supply in the factory can be used to inject superheated pressurized steam into the boiler inside the L-STeaM. The resulting saturated steam is then used instead of electrically generated steam.

The L-STeaM series is available in a 1.85, 2.50 and 3.40 meter width and is made of 304 and 316 stainless steel. All necessary components are integrated in the L-STeaM.

The L-STeaM is **CE** marked.

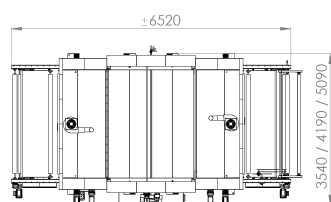
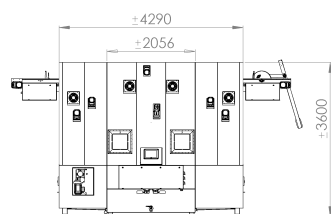
- high volume production steamer
- all types of textile dyes
- low fresh steam consumption
- reproducible and uniform results
- excellent colour yields
- user friendly PLC-control
- easy to maintain
- free configuration, e.g. 50, 100, 150, 200 m content or more
- upgradable with LS-U units
- available in a 1.85, 2.50 and 3.40 meter width
- stainless steel 304 and 316

options:

- ascending batch winder/unwinder
- water softener
- external steamnet connection
- custom power / frequency



L-STeaM LS-B and LS-U technical specifications



Type, capacity		B50		U50	
Maximum fabric length inside steam chamber		50	+ 50		[m]
Production capacity	2 min fixation process	1400	+ 1400		[m/h]
	10 min fixation process	+ 300	+ 300		[m/h]
	30 min fixation process	100	+ 100		[m/h]
Forced circulation		variable up to 5000			[m³/h]
Temperature range	steamtemperature	100 - 180			[°C]
	airtemperature	50 - 180			[°C]
Type, width		1850	2500	3400	
Volume steam chamber		33.00	42.00	53.00	[m³]
Fabric	maximum width	1.85	2.50	3.40	[m]
Dwell time		2 - 45			[min]
Steam generator		35 - 50			[kW]
Steam/air heating		selectable 30 - 50			[kW]
Slit heating		0.60	0.80	1.10	[kW]
Steam cooling		10			[kW]
Weights	module LS-B	tbd	tbd	tbd	[kg]
	module LS-U	tbd	tbd	tbd	[kg]
Required Connections	power voltage	N + 3 x 230/400			[VAC]
	power current	80 + 80			[A]
	water	70			[l/h]
	water pressure	0.5-6			[bar]
	steam/air exhaust	1000			[m³/h]
	condensate wastewater	15			[l/h]