



## MAXIME J-BOX

Continuous Washing in Open-Width Form





**HIGH  
PRODUCTIVITY**



**ENERGY  
EFFICIENCY**



**HIGH  
QUALITY**

**LONGER DWELL TIME  
FOR CHEMICAL PROCESSES**

**HIGHER WASHING EFFECT**



# LOGIC OF OPEN WIDTH J-BOX

## LONGER DWELL TIME

J-Box structure provides longer dwell time during washing process.

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## HIGHER WASHING EFFECT

High washing effect is obtained, with Pluvia Plate Nozzles having 60m<sup>3</sup>/h of water flowrate, and application of fresh water inlets with pressurized nozzles.

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## RELAXING FABRIC

With the J-Box structure, the fabric can be kept free and relaxed.

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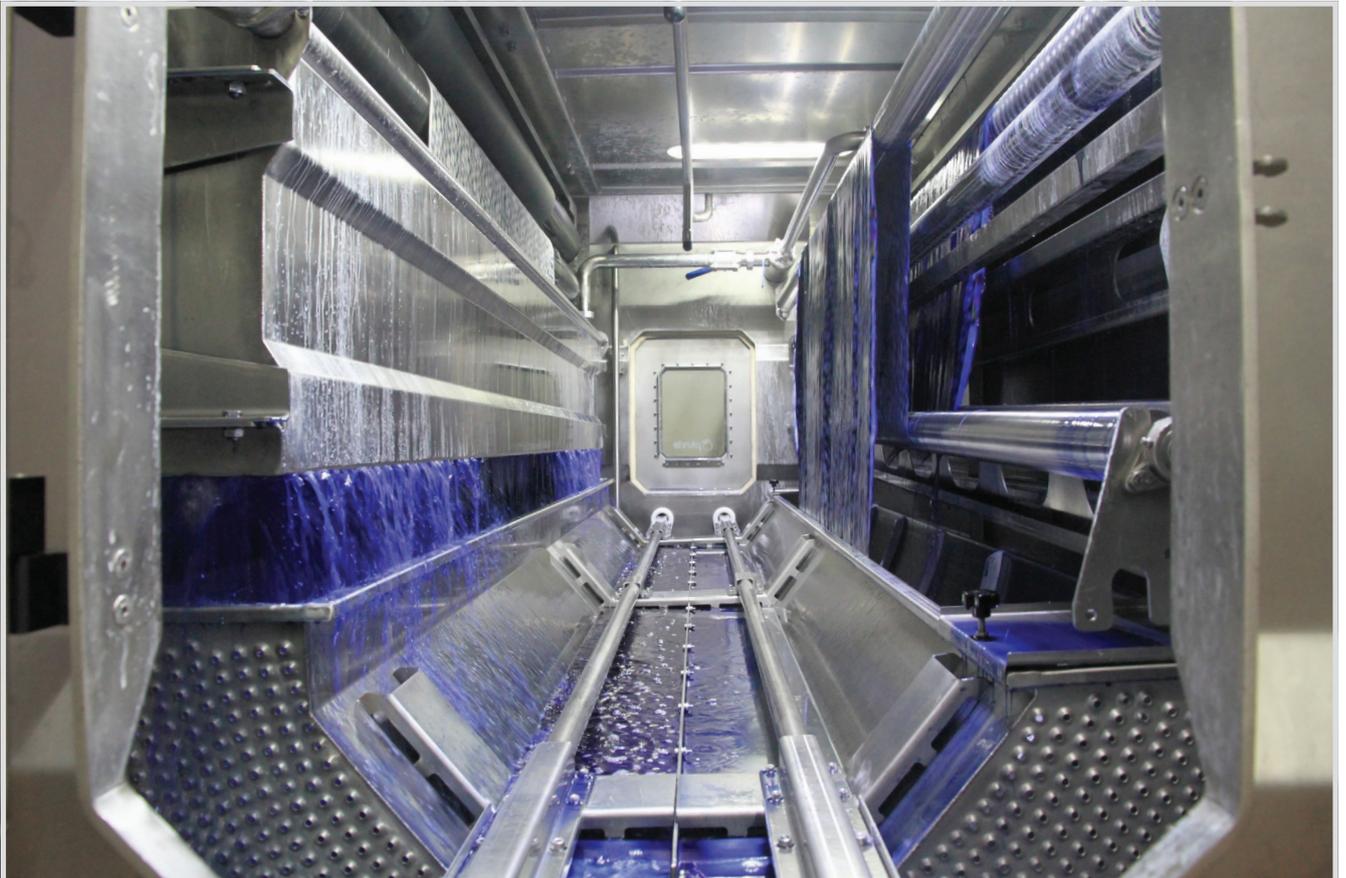
## LESS PEELING

Since all drive units are automatically operated with tension controls, there is no frictional wear on the fabric.

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## HIGHER FASTNESS

Pluvia continuously washes the fabric with high mechanical water effect during the whole process. Thus the fastness values increases.



# AREA OF USE & DESIGN PARAMETERS

- Compact and modular design for knitted fabric.
- Capable of washing all types of fabrics and fibers like silk, cotton, regenerated fibers, polyester and blends.
- Wide washing range from 40-900 GSM of fabrics from silk to towel.
- High washing efficiency with 60 m<sup>3</sup>/h continuous water flow rate in each chamber.
- Closed-loop type heat exchanger for each chamber.
- Static or automatic filter for each chamber.
- Double dosing inlet points for chemicals in each chamber.
- Automatic washing nozzles in each chamber for cleaning the chambers.



## PLUVIA MAXIME J-BOX CONSUMPTIONS

	WASHING AFTER DYEING	WASHING AFTER PRINTING	WASHING CPB
Water Consumption	7 - 10 l/kg	20 - 30 l/kg	10 - 20 l/kg
Steam Consumption	0,6 - 1 kg/kg	1,5 - 2,5 kg/kg	1- 1,5 kg/kg
Electricity Consumption	0,08 - 0,13 kW/kg	0,08 - 0,13 kW/kg	0,08 - 0,13 kW/kg

# SYSTEM INSIDE CHAMBER

## 1. PLUVIA PLATE NOZZLE

With its wavy design, water is directed to the fabric many times, so that maximum washing effect is provided.

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## 2. J-BOX

Longer dwell time is obtained with the structure that can get 75-100 kg fabric. Thus it is suitable for chemical applications requiring time.

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## 3. WEIGHT CONTROL

The fabric amount in J-box is measured by load cells and the flow synchronization is controlled by this value. Dwell time can be adjusted according to the needs.

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## 4. NIPPING AND TRANSFER CYLINDERS

Nipping forces can be adjusted by the operator with 0.01 bar precision. Cylinder rubbers are specially produced for proper nipping forces. The nipping cylinders can be disabled if required.

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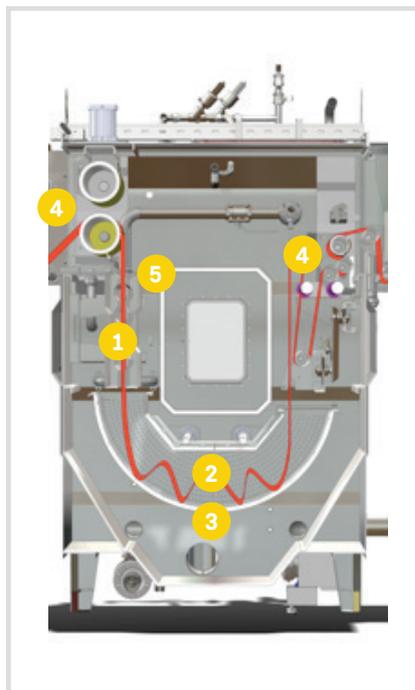
## 5. NOZZLES WITH PRESSURIZED CLEAN WATER

In the chambers with fresh water inlet, clean water is applied to the fabric with special nozzles, just before leaving the chamber. Since there is always clean water inside nozzles, no clogging occurs.

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## COUNTER-FLOW SYSTEM

Adjustable counter-flow system, allowing various grouping of the chambers according to the process needs.



# AUTOMATION SYSTEM & SOFTWARE

## SOFTWARE

Pluvia has a software easy to use.  
Software codes are shared with customers.

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## WATER FEEDING SYSTEM

Water consumption is precisely controlled, based on the fabric weight and machine speed.

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## CHEMICAL DOSAGE CONTROL

Chemical dosage rate is precisely controlled, based on the fabric weight or water flow rate.

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## TEMPERATURE CONTROL

The temperatures of the chambers are controlled precisely by the automation software (PID control) depending on the set value

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## SPEED SYNCHRONIZATION

Precise speed synchronization with Load Cell controlled J-Box and frequency controlled drive cylinders provides tension and elongation free fabric flow.

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## PRODUCTION AND PRODUCTIVITY RECORDS

Batch-wise automatic recording of process parameters such as speed and consumptions, temperatures etc.





### MATERIAL

Completely stainless steel.

Pluvia uses state-of-the-art equipments and brands.

### SETUP

Easy setup with built-in foundation structure and built-in pipelines.

### MAINTENANCE

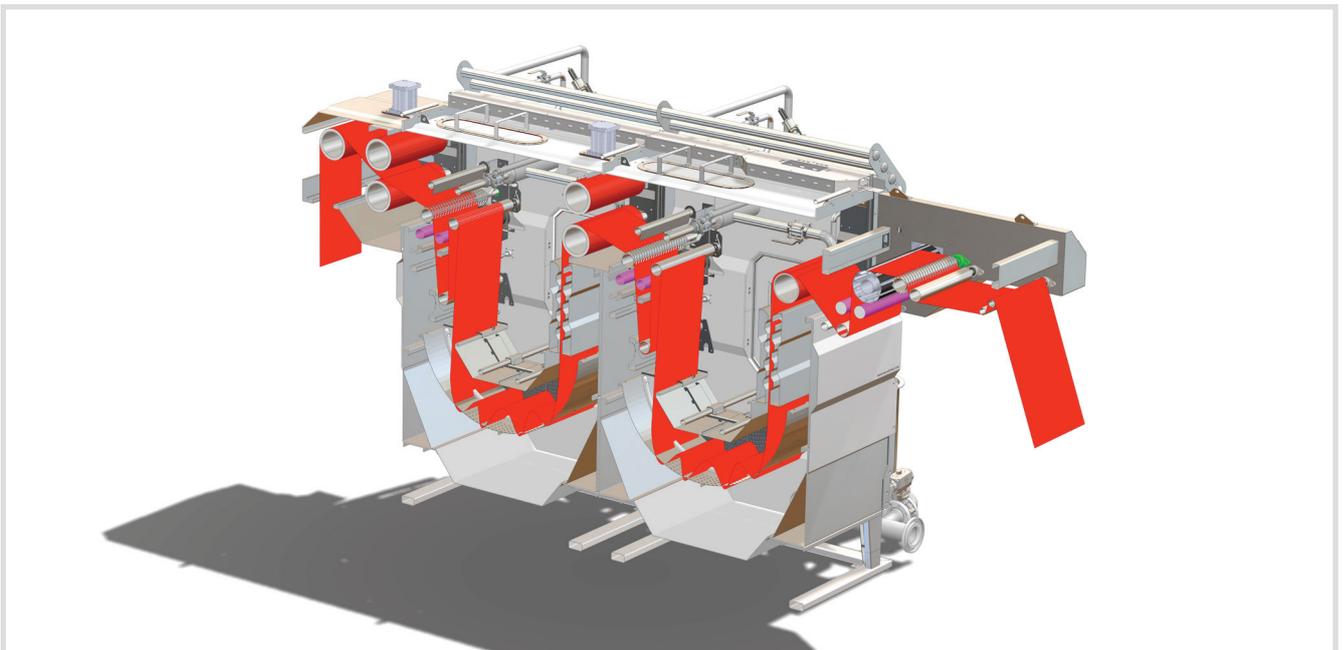
Quick and easy service and maintenance by universally available standard parts and equipments.

Easy maintenance through large windows located on both front and back side of the chamber.



### PLUVIA MAXIME J-BOX DIMENSIONS

CHAMBER	LENGTH (mm)	WIDTH (mm)	HIGHT (mm)
1	3.500	4.000	2.400
2	6.000		
3	7.500		
4	9.000		



MAXIME J-BOX



SIMPLE | SMART | EFFICIENT

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