

# MAXIME DRUM

## Drum Washing Machine





**HIGH  
PRODUCTIVITY**



**ENERGY  
EFFICIENCY**



**HIGH  
QUALITY**

**WASHING THE FABRIC WITHOUT CREASE MARKS  
HIGH MECHANICAL WATER EFFECT**



# LOGIC OF WASHING SYSTEM



## ALL TYPES OF YARNS AND FABRICS

Capable of washing almost all types of fabrics and yarns like cotton, viscose, modal, tencel, polyester and blends.

## WASHING WITHOUT CREASE MARKS

Washing the fabric without crease marks, by adjusting the tension of the fabric at every 2 meters.

## HIGH WASHING EFFECT

With...

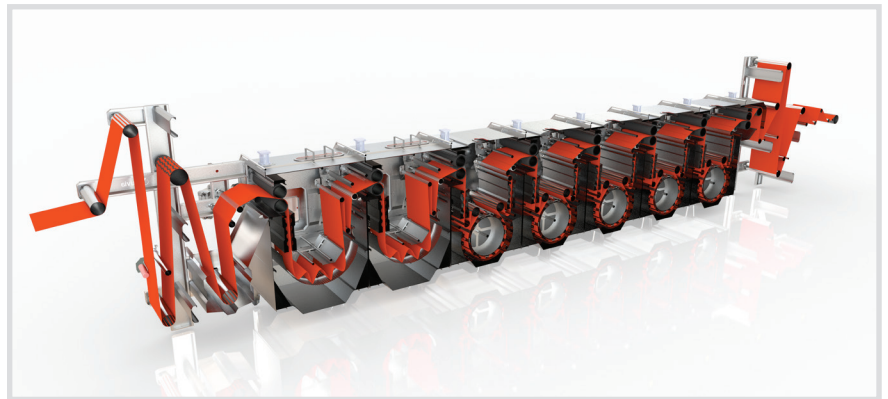
Pluvia Plate nozzles having 60m<sup>3</sup>/h of water flowrate,  
High mechanical washing effect via threaded drum structure,  
Application of fresh water inlets to fabric with pressure nozzles,

## LESS PEELING

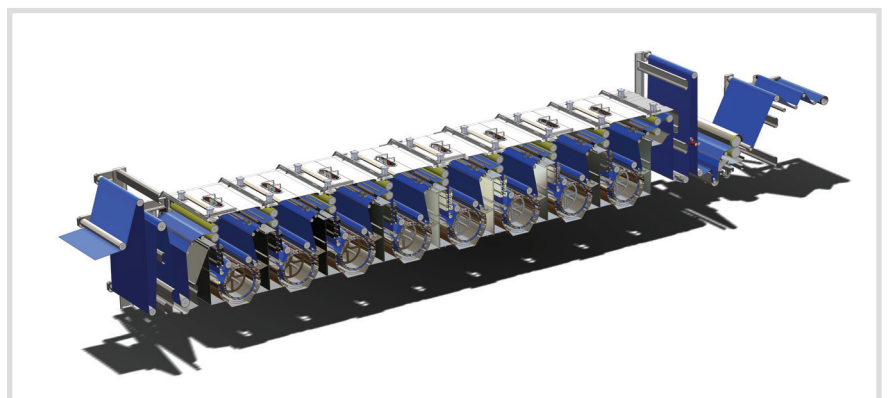
Since all drive units are automatically operated with tension controls, there is no frictional wear on the fabric.

## HIGHER FASTNESS

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



WASHING AFTER PRINTING



WASHING AFTER CPB

# AREA OF USE & DESIGN PARAMETERS

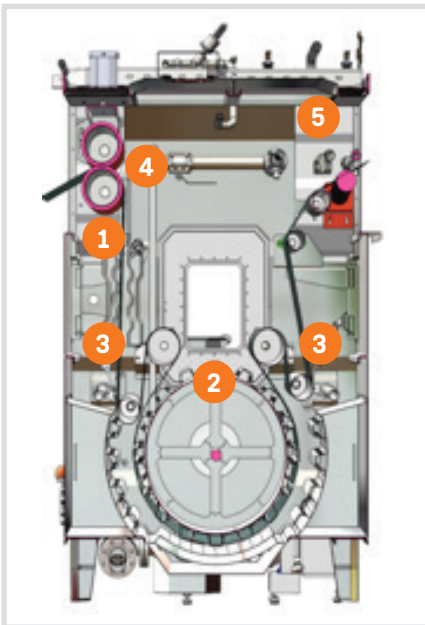
- Compact and modular design for knitted and woven fabric.
- Capable of washing all types of fabrics and fibers like silk, cotton, regenerated fibers, polyester and blends.
- Wide washing range from 40-900 GSM fabrics from silk to towel.
- High washing efficiency with 60 m<sup>3</sup>/h continuous water 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.



## MAXIME DRUM CONSUMPTIONS

	WASHING AFTER DYEING	WASHING AFTER PRINTING	WASHING AFTER PATH BACH
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 OF MACHINE



## 1. PLUVIA NOZZLE

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

## 2. DRUM WITH TREADS

It is designed to rinse out of the fabric just before leaving the chamber. The design geometry ensures maximum fabric-water contact time for best washing effect.

## 3. ADVANCED TENSION CONTROL

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.

## 4. NIPPING AND TRANSFER CYLINDERS

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

## 5. NOZZLES WITH PRESSURIZED CLEAN WATER

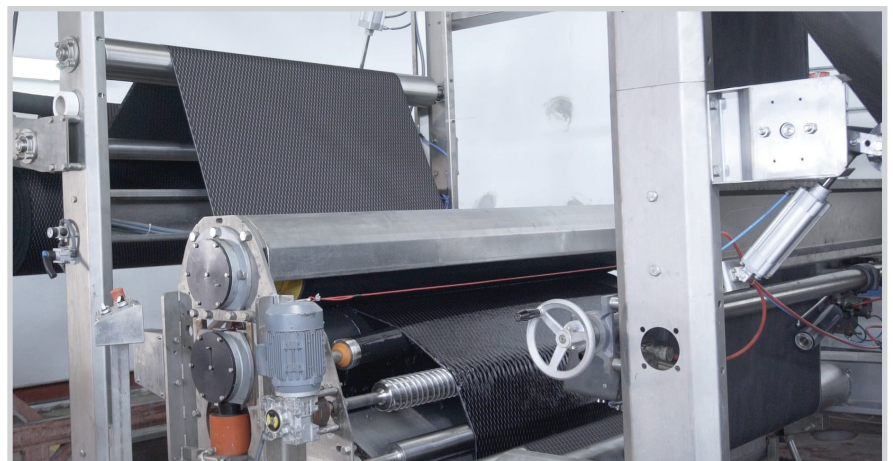
Built-in waste water heat recovery system reducing the energy consumptions at least by %30.

## 6. ADJUSTABLE COUNTER-FLOW

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

## 7. WASTE WATER HEAT RECOVERY SYSTEM

Built-in waste water heat recovery system reducing the steam consumptions minimum %30.



# 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 DRUM DIMENSIONS

CHAMBERS	LENGTH (mm)	WIDTH (mm)	HIGHT (mm)
2	7.500	4.000	3.300
4	10.500		
6	16.500		





SIMPLE | SMART | EFFICIENT