

# MCS

DYEING & FINISHING MACHINERY



## WR SOFT

ROPE PREPARATION & WASHING RANGE



# OUR HISTORY

DYEING & FINISHING MACHINERY



MCS & TERMO INNOVATION ZONE



COMMISSION ECO-DYEHOUSE



AUTOMATION & SOFTWARE



mcsgroup.it  
Bergamo - Italy



MCS spa, since 1963, develops, manufactures and installs discontinuous dyeing machines and washing & preparation lines

## 2023 ITMA - Milan

MCS exhibits:

- Multiwash-M,
- Comby Jigger-C4,
- Chronoflow,
- Softflow-18

## 2019 ITMA - Barcellona

MCS exhibits:

- Lavaprint Next,
- Dynamica Sprint,
- Mini Jigger 98,

MCS presents:

- C4 Comby Jigger 143;
- Softflow 18-HT.

## 2017

MCS presents:

- Mini Jigger 98.

## 2015 ITMA - Milan

MCS exhibits:

- Multiwash,
- Dynamica Sprint,
- Starwash FS,
- Termopowder XP,
- Texmanager XP,
- Termochem XP.

## 2014 ITMA - Shanghai

MCS exhibits:

- Starwash Fast Scouring.

## 2013

MCS celebrate their 50 th anniversary

## 2011 ITMA - Barcellona

MCS exhibits:

- Dynamica,
- Star Wash,
- Comby Jigger,
- Supervisor Texmanager.

## 2009

MCS presents:

- Italica.

## 2008

MCS Re-design of all high and low temperature Jigger models.

## 2007 ITMA - Munich

MCS exhibits:

- Universal Dyeing,
- First Vento,
- Tumbler Mistral,
- VDA.

## 2005 IKME - Milan

MCS exhibits:

- Universal Dyeng, VDA.

## 2003 ITMA - Birmingham

MCS exhibits:

- Multiflow Superior,
- Ecoturbo Beam Dyeing Machine.

## 2000

MCS acquires 100% of Termoelettronica ownership.

## 1999 ITMA - Paris

MCS exhibits:

- Multiflow,
- Softflow 100 Evolution,
- Comby jigger electronic.

## 1995 ITMA - Milan

MCS exhibits:

- Softflow,
- Long Horn,
- Pumex

## 1991 ITMA - Hannover

MCS exhibits:

- Tornado Tumbler,
- Maxi & Mid jiggers,
- Lavaprint.

## 1987 ITMA - Paris

MCS exhibits: Pandora.

## 1983 ITMA - Milan

MCS exhibits:

- Tubular mercerizer MT26,
- Softflow-82 LT/HT,
- Flow/jet OF83,
- Comby Jigger HT,
- WR rope washing machine.

## 1980

Europea activity begins, group dyeing and resining company.

## 1979 ITMA - Hannover

MCS exhibits:

- Jet HT,
- Overflow MO/80 LT,
- MRS65.

## 1974

MCS begins the design and development of the open width lines.

## 1971 ITMA - Paris

MCS exhibits:

MCS exhibits the first low temperature jet model.

## 1968

Europizzi begins its activity

## 1967

MCS manufactures the first low temperature rope dyeing machine.

## 1964

MCS begins its activity.

## 1963

Gino Chiappini, Angelo Cagnazzo, founding MCS. Gino Chiappini is the Chairman of the Board.



# WR SOFT

## ROPE WASHING RANGE

WR SOFT es idónea para los siguientes tratamientos de base:

### Preparación

prelavado de los tejidos crudos y teñidos en hilo, desencola y purga los artículos de malla y textura con cadena

### Blanqueo

se tratan artículos de malla o tejido de algodón, CO/PES, CO/VIS, con peróxido, en el mismo paso se blanquea y se lava

### Lavado

Lavado y jabonado después de la tintura de las tintas relativas sistemas discontinuos del tipo overflow-jet  
Para neutralizar después de la mercerización  
Lavado en caliente después de blanqueo en frío para almacenamiento  
Lavado y jabonado después de tintura con Pad-Batch  
Lavado después de impresión incluso de artículos de lycra viscosa  
Lavado de tejidos de lana mediante desencolado y purga  
Gestión completa de la línea con PC INDUSTRIAL CON PANTALLA TÁCTIL

WR SOFT está completamente diseñado y construido MCS.

Cada novo modelo é testado e exibido, em INNOVATIVE BLUE AREA integrada na tinturaria do Grupo MCS.

WR SOFT is suitable for following fundamental treatments:

### Preparation

pre-washing of grey and yarn-dyed fabrics, desizing and scouring for woven and knitted fabrics

### Bleaching

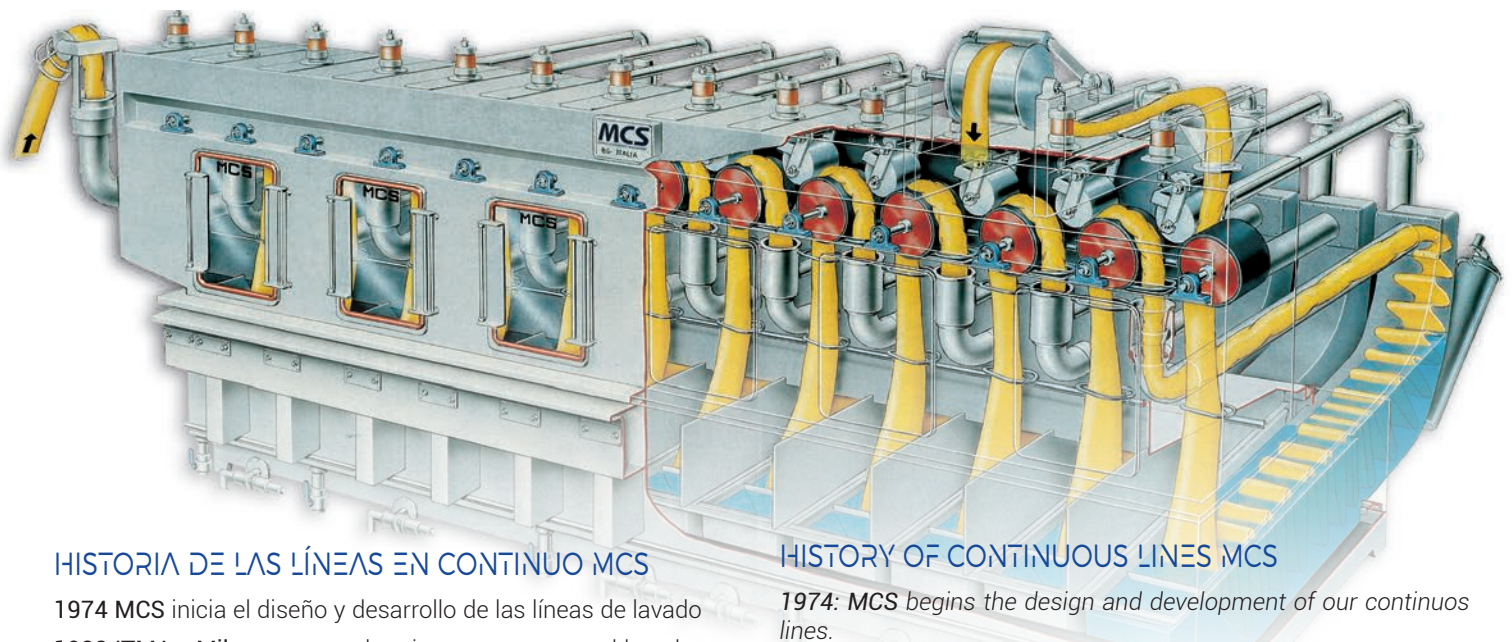
processing of knits and woven fabrics, COTT/PES, COTT/VIS, with peroxide. The whole operation, from scouring to washing or rinsing and softening after bleaching, is carried out in one step on this machine

### Washing

Washing and soaping of batch wise dyed wovens and knits (this procedure gives dramatic savings of water and steam)  
- Neutralization after mercerization  
- Washing after cold pad-batch bleaching  
- Washing and soaping after dyeing at pad-batch dyeing  
- Washing after printing, including sensitive fabrics as lycra/nylon, etc  
- Washing of wool fabrics for desizing and scouring  
- Full management of the line via INDUSTRIAL PC TOUCH SCREEN

WR SOFT is entirely engineered and built in MCS.

Each new model is tested and exhibited, in INNOVATIVE BLUE AREA integrated in the MCS Group dyeing plant.



### HISTORIA DE LAS LÍNEAS EN CONTINUO MCS

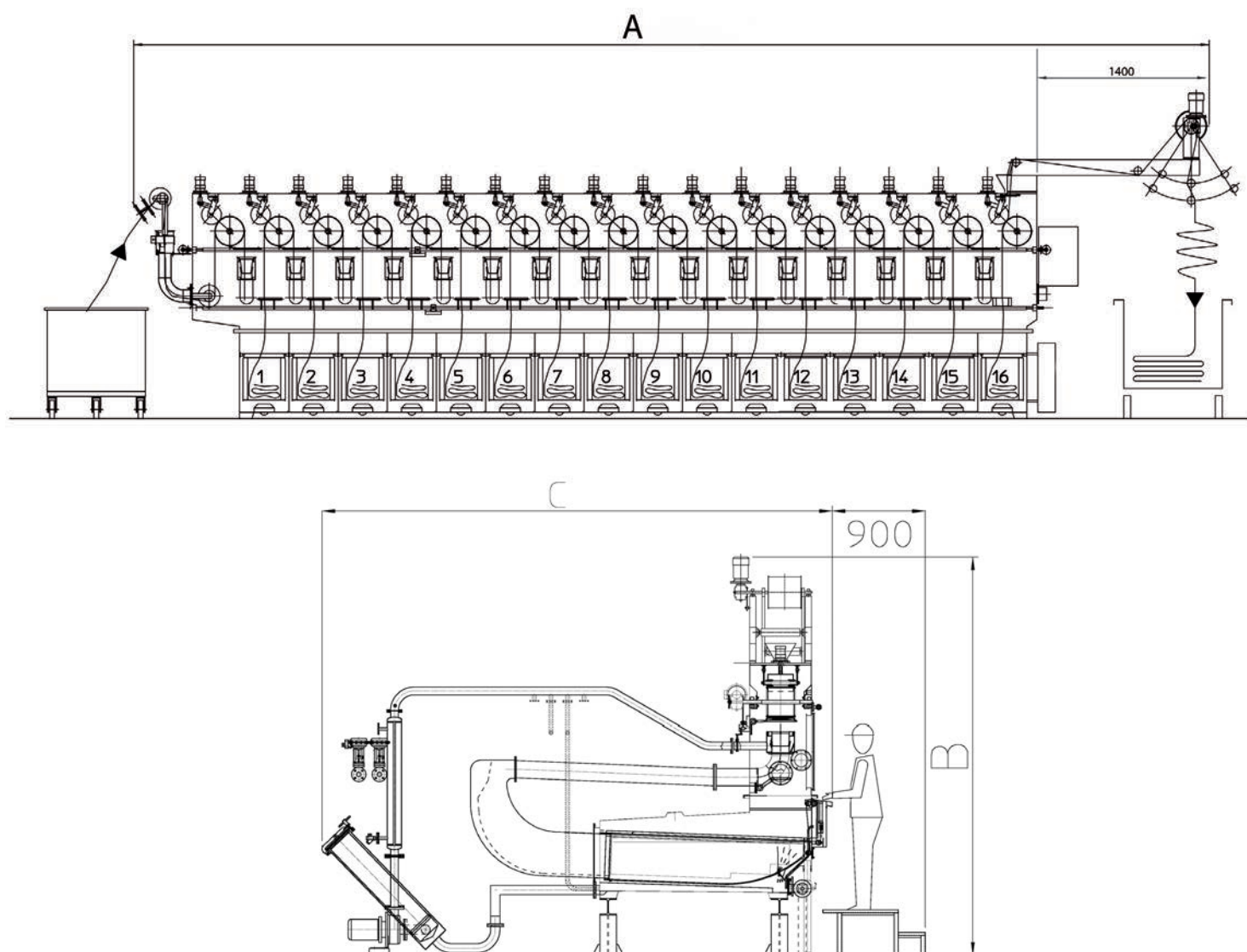
1974 MCS inicia el diseño y desarrollo de las líneas de lavado  
1983 ITMA - Milano: expone la primera gama para el lavado en cuerda WR  
1991 ITMA - Hannover: MCS expone la primera gama de lavados combinados LAVAPRINT  
2011 ITMA - Barcellona: MCS expone la gama de lavado de tambor STARWASH  
2015 ITMA - Milano: MCS expone la primera gama de lavados de cuerda compactos MULTIWASH  
2019 ITMA - Barcellona: MCS presenta STARWASH-EVO  
2023 ITMA - Milano: MCS expone la primera gama de lavados de cuerda y modulares y reconvertibles MULTIWASH-M

### HISTORY OF CONTINUOUS LINES MCS

1974: MCS begins the design and development of our continuous lines.  
1983 ITMA - Milan: MCS exhibits the first rope wahing range WR  
1991 ITMA - Hannover: MCS exhibits the first combined washing range LAVAPRINT  
2011 ITMA - Barcelona: MCS exhibits the drum washing range STARWASH  
2015 ITMA - Milan: MCS exhibits the first compact washing range MULTIWASH  
2019 ITMA - Barcelona: MCS exhibits the STARWASH-EVO  
2023 ITMA - Milan: MCS exhibits the first modular washing range MULTIWASH-M

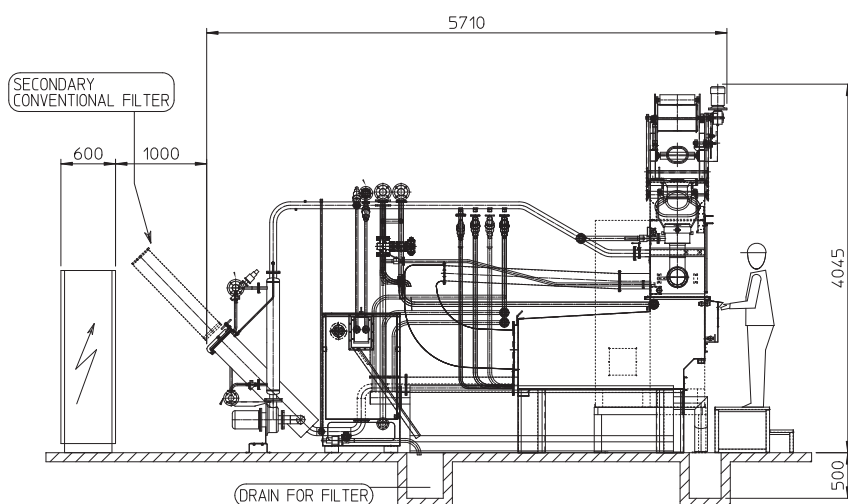
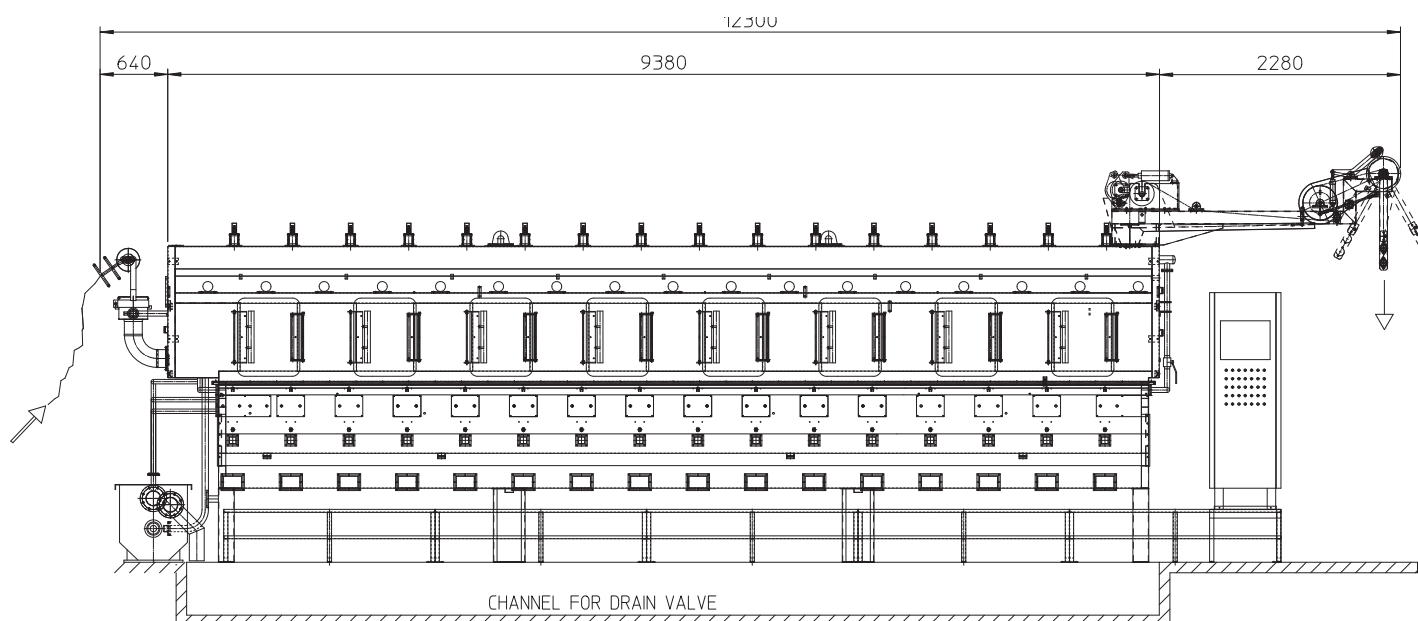
# MODELS DATA

## STANDARD VERSION



| WR                       | WR-4    | WR-6    | WR-8    | WR-10   | WR-12   | WR-14   | WR-16   |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|
| A [mm]                   | 4900    | 5900    | 6900    | 7900    | 8900    | 9900    | 10900   |
| B [mm]                   | 2450    | 2450    | 2450    | 2450    | 2450    | 2450    | 2450    |
| C [mm]                   | 3500    | 3500    | 3500    | 3500    | 3500    | 3500    | 3500    |
| Trough Capacity [kg]     | 40      | 40      | 40      | 40      | 40      | 40      | 40      |
| Trough Capacity [lb]     | 90      | 90      | 90      | 90      | 90      | 90      | 90      |
| Water Consumption [l/kg] | 15 ÷ 30 | 15 ÷ 30 | 15 ÷ 30 | 15 ÷ 30 | 15 ÷ 30 | 15 ÷ 30 | 15 ÷ 30 |
| Speed [m/1']             | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  |
| T max [°C]               | 98      | 98      | 98      | 98      | 98      | 98      | 98      |
| Installed Power [Kw]     | 13,5    | 19,5    | 25,5    | 31      | 37      | 43      | 49      |

Please take note that technical data may be changed by MCS spa to improve the quality of the offered product.

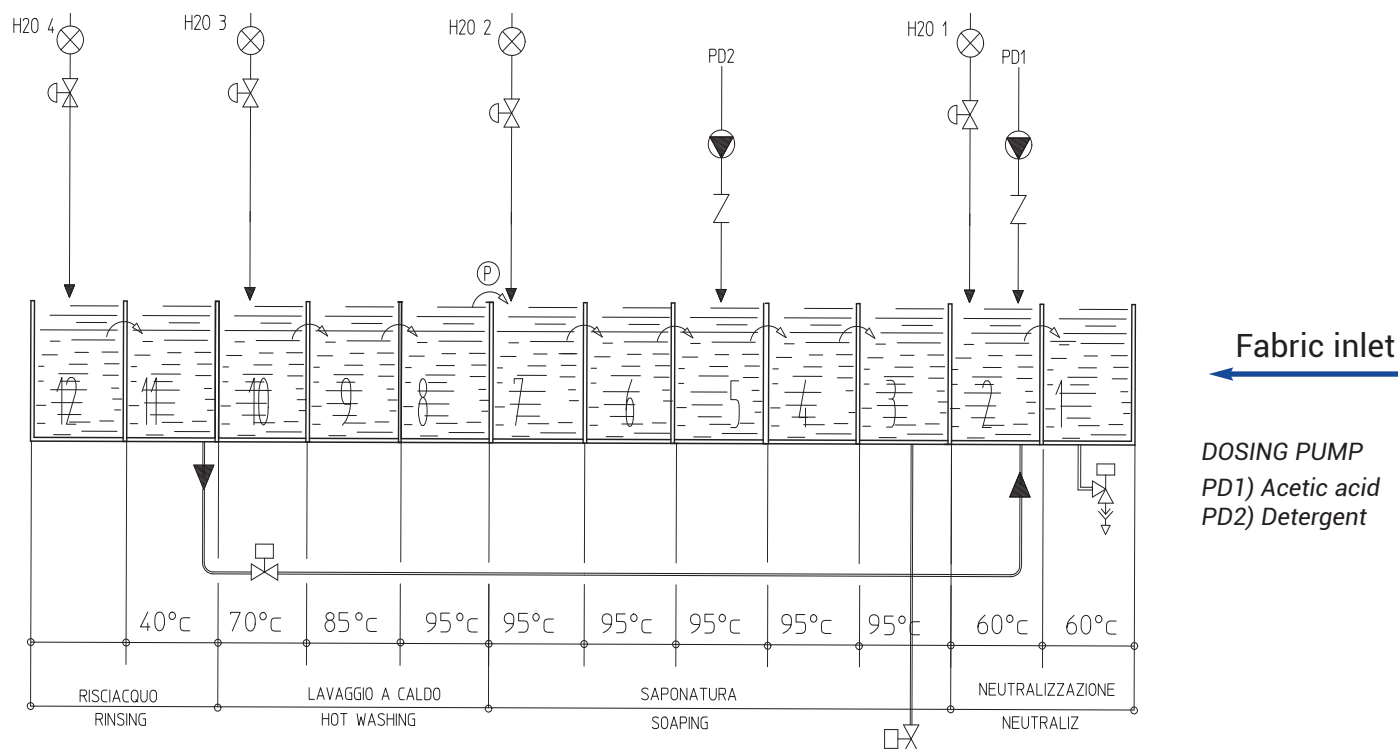


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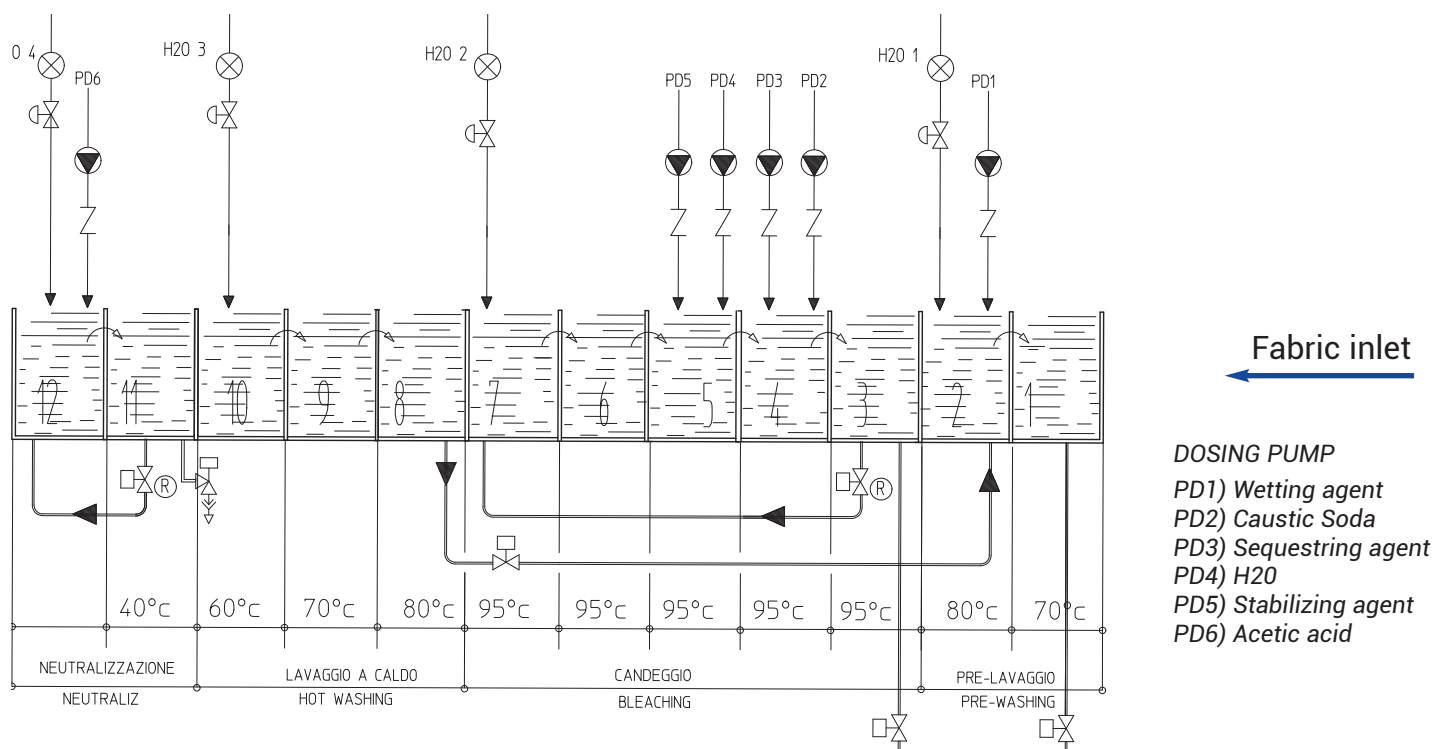
| WR Soft - JUMBO          | WRJ-4 | WRJ-6 | WRJ-8   | WRJ-10  | WRJ-12  | WRJ-14  | WRJ-16  |
|--------------------------|-------|-------|---------|---------|---------|---------|---------|
| A [mm]                   | -     | -     | 7760    | 8860    | 9960    | 10060   | 12160   |
| B [mm]                   | -     | -     | 3800    | 3800    | 3800    | 3800    | 3800    |
| C [mm]                   | -     | -     | 5600    | 5600    | 5600    | 5600    | 5600    |
| Trough Capacity [kg]     | -     | -     | 50      | 50      | 50      | 50      | 50      |
| Trough Capacity [lb]     | -     | -     | 110     | 110     | 110     | 110     | 110     |
| Water Consumption [l/kg] | -     | -     | 11 ÷ 25 | 11 ÷ 25 | 11 ÷ 25 | 11 ÷ 25 | 11 ÷ 25 |
| Speed [m/1']             | -     | -     | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  | 8 ÷ 80  |
| T max [°C]               | -     | -     | 98      | 98      | 98      | 98      | 98      |
| Installed Power [Kw]     | -     | -     | 39      | 47      | 55      | 64      | 72      |

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### WASHING OFF REACTIVE DYEING

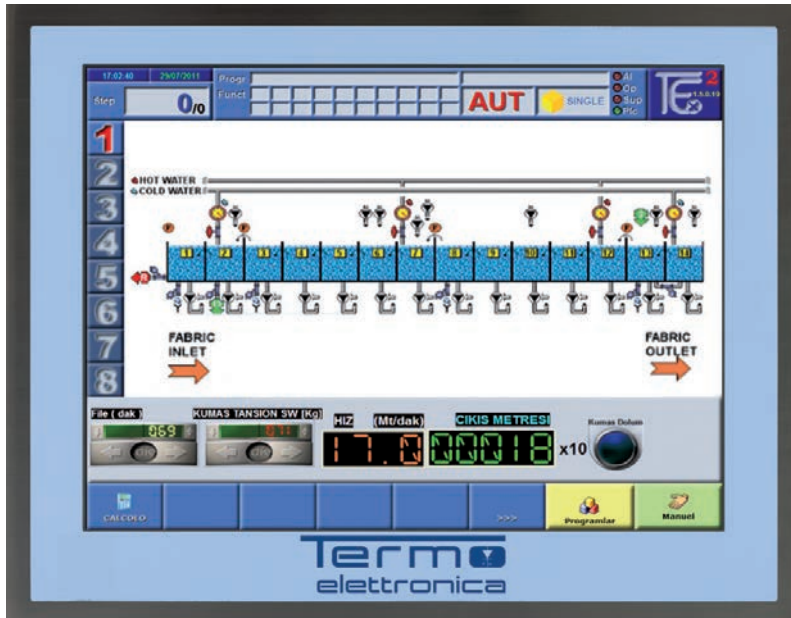


### BLEACHING and WASHING



ALL WASHING LINES ARE AUTOMATED WITH TEMOELETRONICA SOFTWARE AND CONTROLLERS

## CTRL-WASH



Panel de operador desarrollado en windows para implementar de forma avanzada todas las funciones de diagnóstico, monitoreo y automatización de las máquinas de teñido.

Pantalla táctil 15", diseñado específicamente para uso industrial: cada función resulta mas fácil e inmediato acceso.

A petición se puede utilizar cualquier micro disponible en el mercado.

Operatiron Panel developed in Windows room to improve all diagnostic functions, monitoring and automation of dyeing machines.

With **Touch-Screen 15"**, purposely designed for industrial use, the access to functions is easy and immediate.

Upon Customer's request it is always possible to install different brands of controllers.

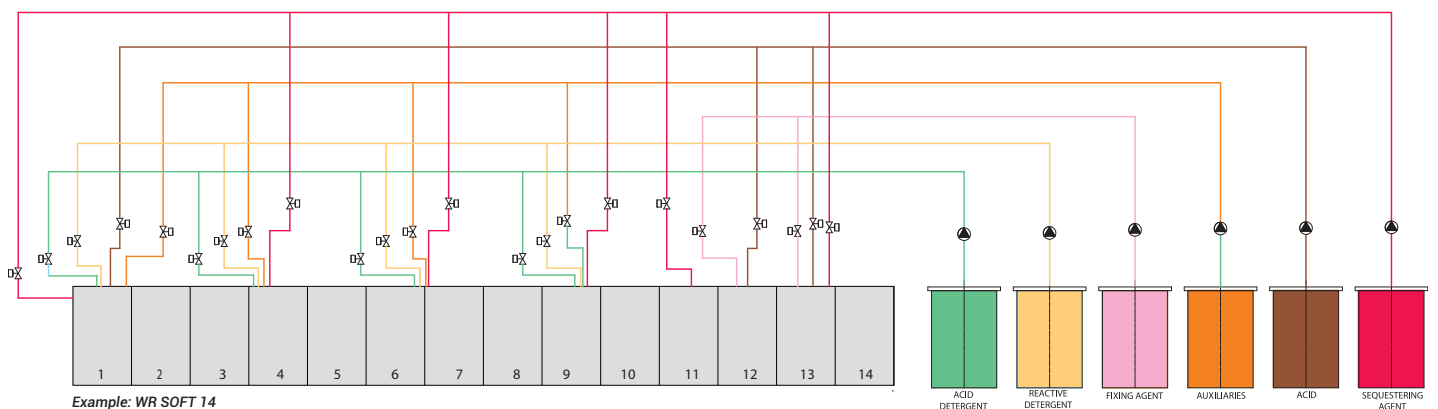
## CONT-DOSING Dosing of pure products and water control in a washing line

O sistema CONT-DOSING é um sistema controlado por um PC em comunicação com um PLC; pode controlar até 8 bombas doseadoras e controlar até 8 entradas de água.

As bombas doseadoras utilizadas são de pistão pneumático de dupla ação. A frequência de controle das bombas é calculada de forma a evitar variações bruscas na concentração do banho

**The CONT-DOSING system** is a system managed by a PC communicating with a PLC which can control up to 8 dosing pumps and 8 water inlets.

Installed dosing pumps are with pneumatic piston at double effect. Pump control frequency values are calculated so as to avoid sudden changes in the concentration of the bath.



## TEX-LINE 4.0 Software integrated for washing lines

- Gestión de parametros de la línea
- Gestión de la planificación
- Control de datos en tiempo real de la máquina
- Base de datos de artículos
- Parametrization Handling
- Batches Handling
- Real time machines supervising
- Fabrics database

# FEEL THE POWER OF WATER

DYEING & FINISHING MACHINERY



**MCS**

Bergamo | Italy | [mcstextile.it](http://mcstextile.it)



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