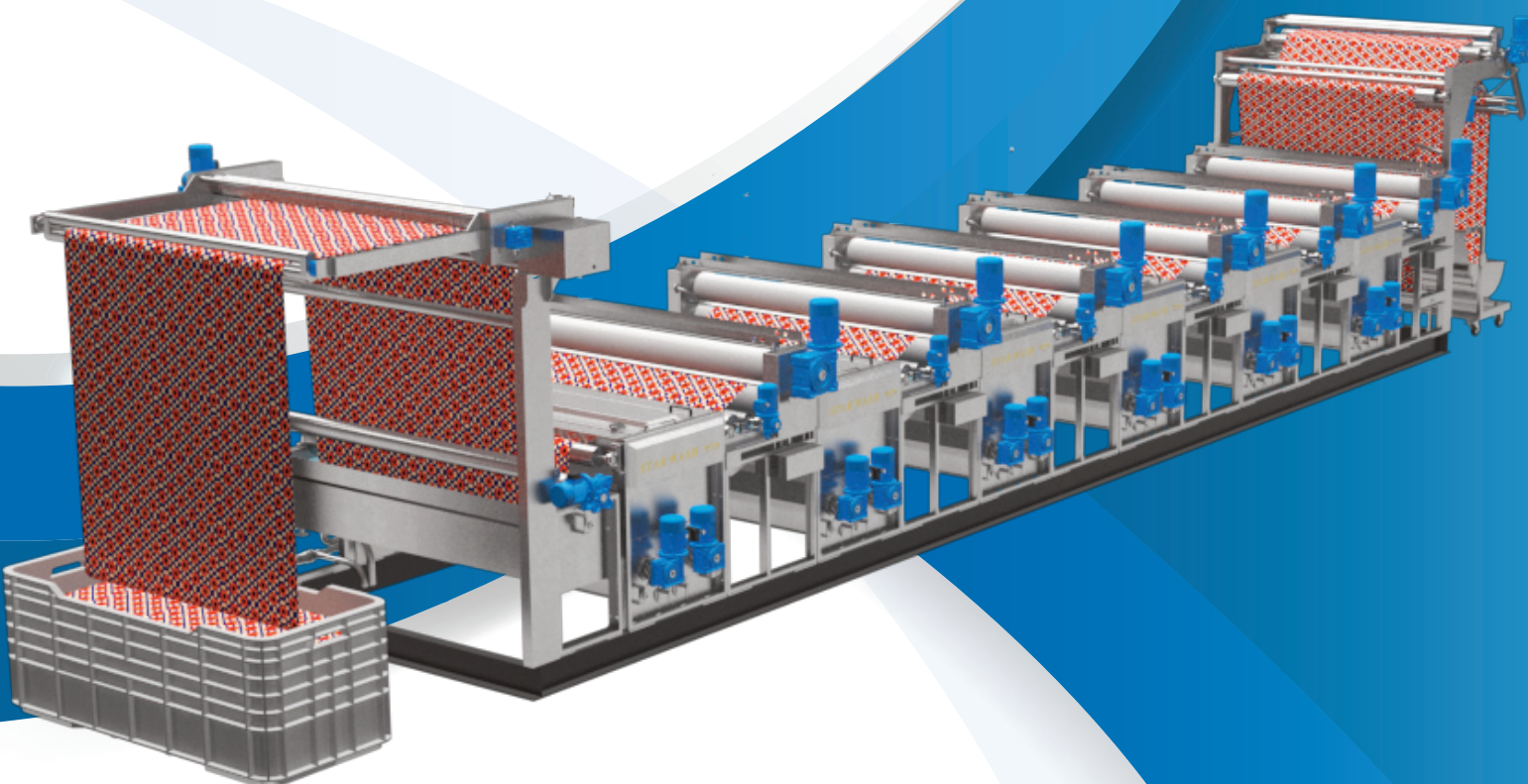


MCS

DYEING & FINISHING MACHINERY



STARWASH

OPEN WIDTH 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.



STARWASH

OPEN WIDTH WASHING RANGE

Starwash é a inovadora caixa de lavagem larga MCS. Modular e compacto, permite o processamento, tanto de malha como de tecidos ortogonais, graças ao sistema patenteado: OVERFLOW & BUBBLE SYSTEM

O tecido é transportado através de dois grandes tambores internos motorizados de grandes dimensões, três cilindros de retorno nos quais estão montadas células de carga e um lenço de compressão.

A recirculação interna do banho forçado permite um grande impacto de lavagem e uma delicadeza nas fibras mais sensíveis. É uma lavagem ideal para fibras sintéticas e naturais, tanto para lavagem após impressão tradicional e jato de tinta, para lavagem e fixação de lã, ou para lavagem após branqueamento e/ ou mercerização.

Starwash é totalmente projetado e construído em MCS.

Cada nuevo modelo es probado y expuesto, en INNOVATIVE BLUE ÁREA integrado en la tintorería del grupo MCS.

Starwash is the innovative MCS wide washing box.

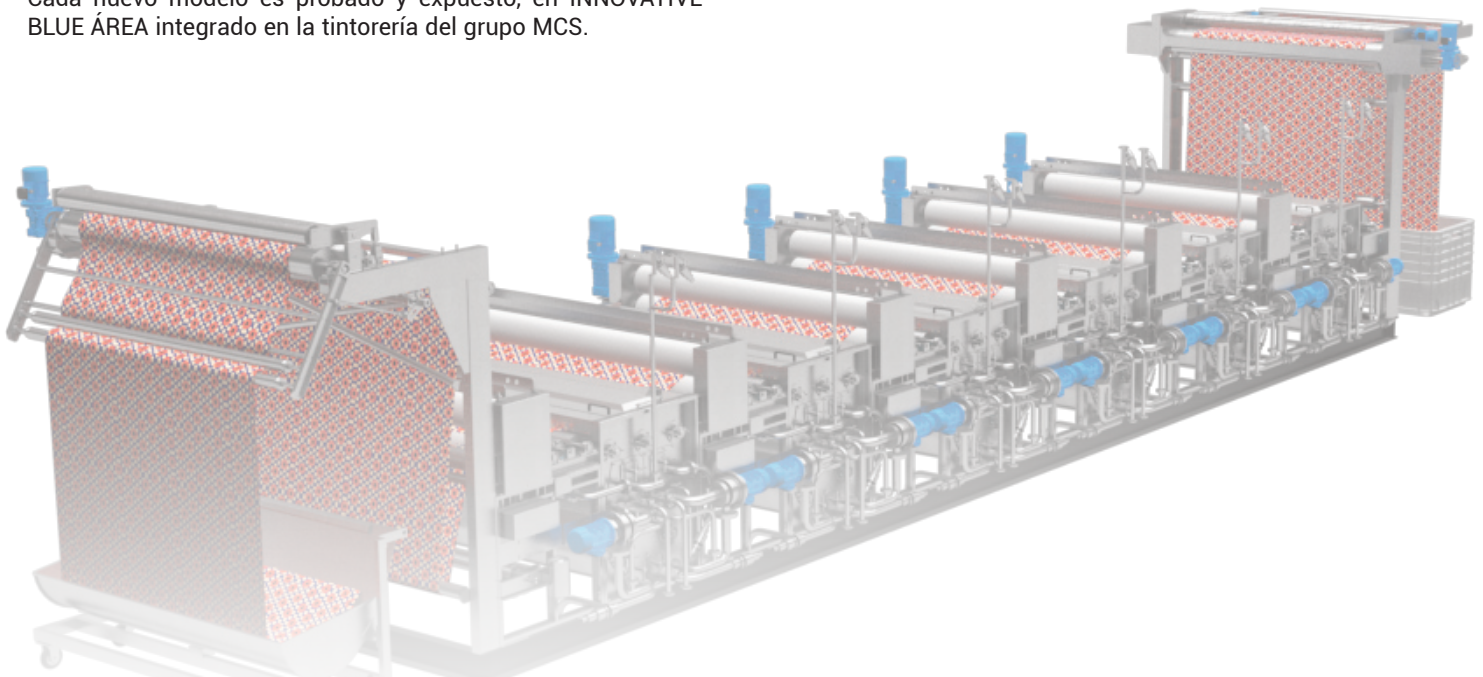
Modular and compact, it allows to process fabrics, both mesh and chain-weave, thanks to the patented system: OVERFLOW & BUBBLE SYSTEM

The fabric is transported through two large internal motorized drums of large dimensions, three return cylinders on which are mounted load cells and a squeezing scarf.

The internal recirculation of the forced bath allows a great washing impact and a delicacy on the most sensitive fibers. It is an ideal wash for both synthetic and natural fibres, both for washing after traditional printing and ink-jet, for washing and fixing of wool, or for washing after bleaching and/or mercerizing.

Starwash 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.



HISTÓRIA DAS LINHAS CONTÍNUAS DE MCS

1974 A MCS inicia a concepção e desenvolvimento de linhas de lavagem.

1983 ITMA - Milano: MCS expõe a primeira gama para lavagem em corda WR

1991 ITMA - Hannover: MCS expõe a primeira gama de lavagens combinadas LAVAPRINT

2011 ITMA - Barcellona: MCS expõe a gama de lavagem de tambor STARWASH

2015 ITMA - Milano: MCS espone la prima gamma di lavaggi in corda compatti MULTIWASH

2019 ITMA - Barcellona: MCS a presenta STARWASH-EVO

2023 ITMA - Milano: MCS a presenta MULTIWASH-M

HISTORY OF CONTINUOUS LINES MCS

1974: MCS begins the design and development of the open-width 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

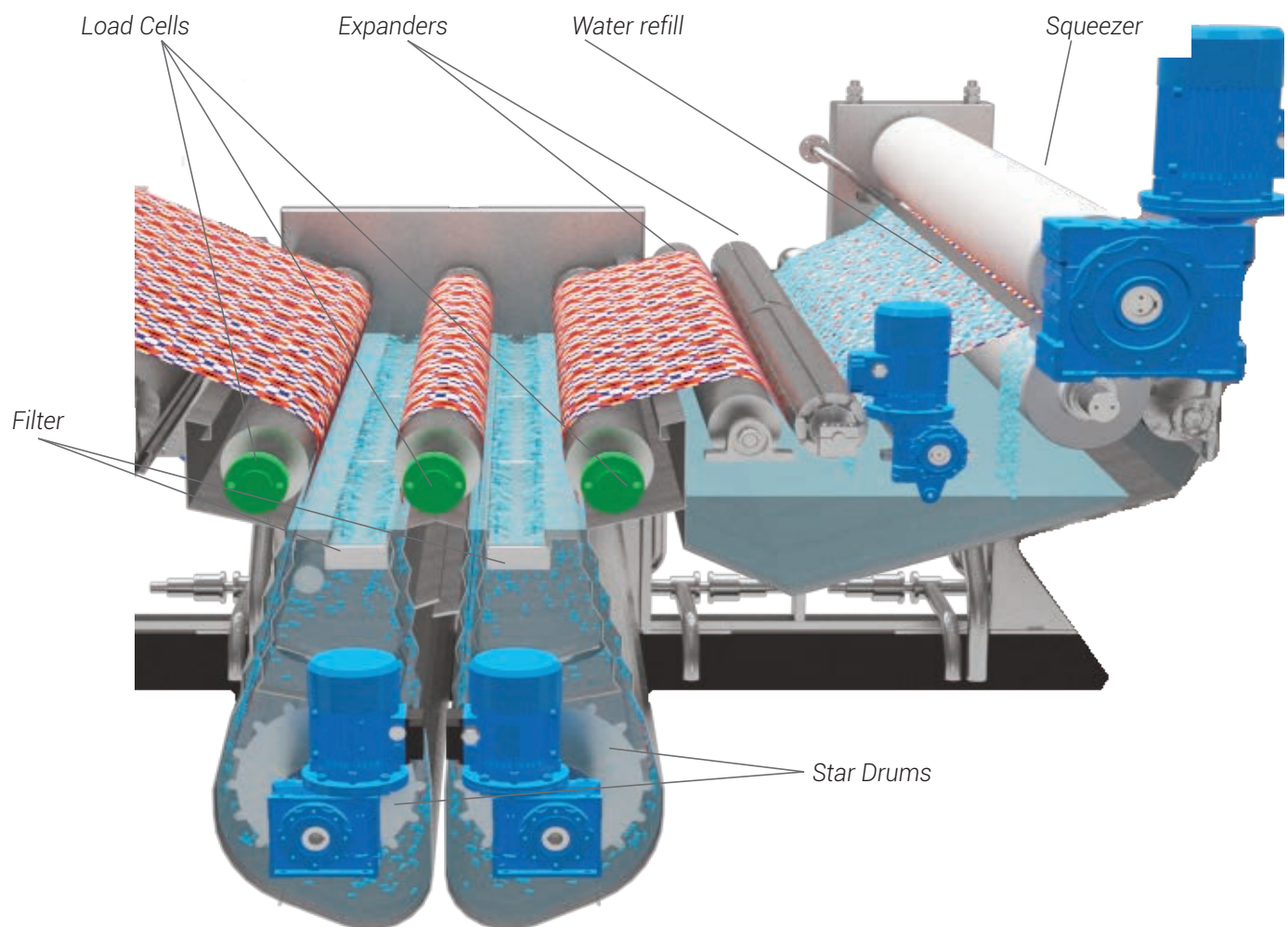
2015 ITMA - Milan: MCS exhibits the first compact washing range MULTIWASH

2019 ITMA - Barcelona: MCS exhibits the STARWASH-EVO

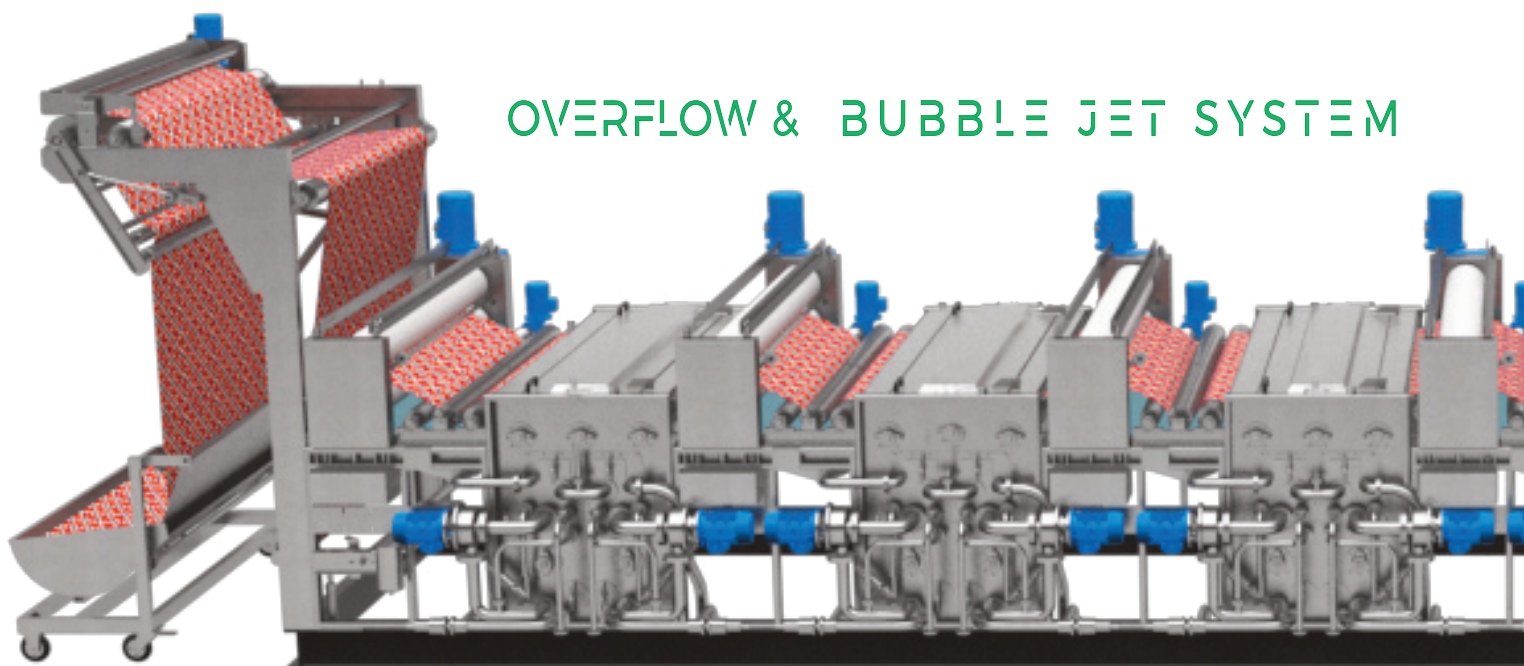
2023 ITMA - Milan: MCS exhibits the first modular washing range MULTIWASH-M

STARWASH

OPEN WIDTH WASHING RANGE



OVERFLOW & BUBBLE JET SYSTEM

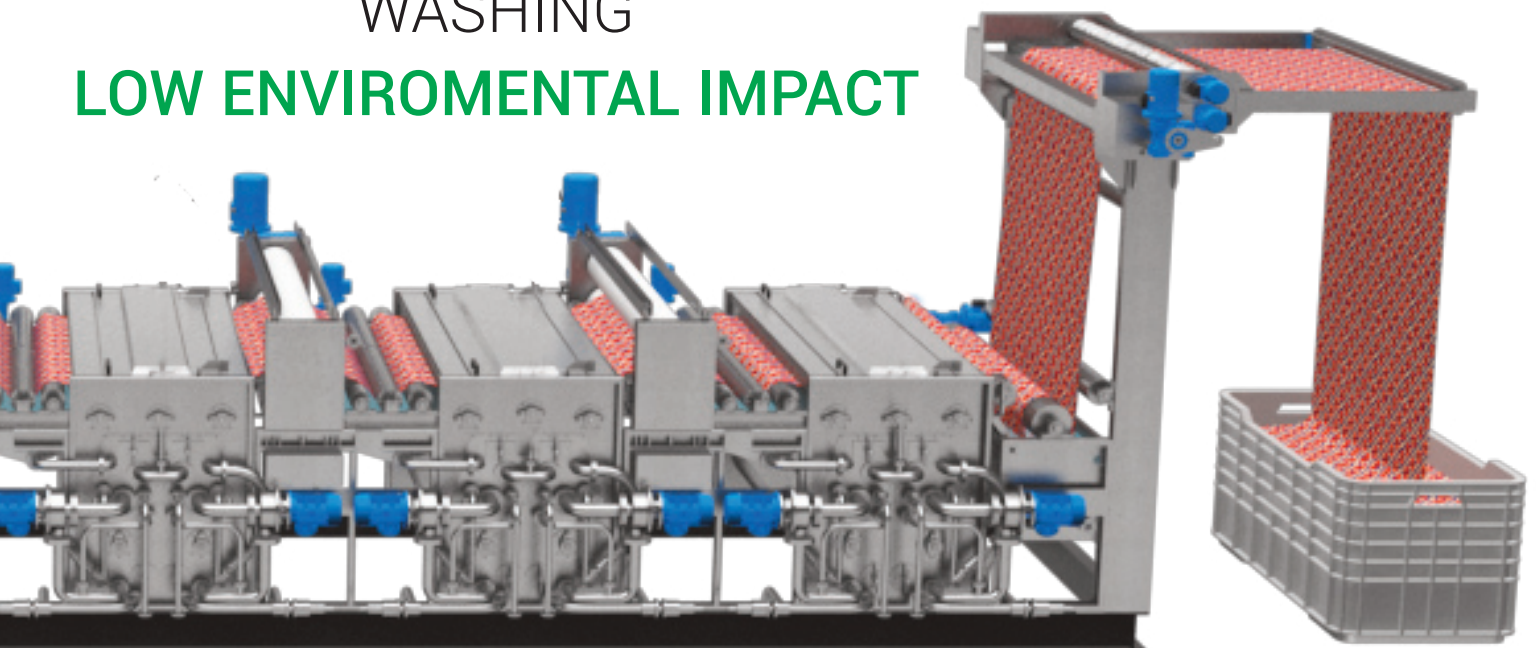


STARWASH

OPEN WIDTH WASHING RANGE

- Circulação do banho em contracorrente forçada
 - Tambores de lavagem a grande eficiência em forma de estrela
 - Volume do banho para enchimento de apenas 350 litros
 - Consumos específicos a partir de 10 l/kg dependendo da cor e do tipo de trabalho a ser executado
 - Grande numero de recirculações e reintegração da água limpa (até 3 vezes por minuto)
 - Câmara tambor com banho sob pressão para uma perfeita penetração nas fibras
 - Perfil apropriado para um aumento do efeito de lavagem
 - Motorização controlada por inverter
 - Controle otimizado do tencionamento com células de carga montadas em cada reenvio
 - Sistema de filtragem por queda transbordo, otimizada e controlada por sonda de leitura contínua
 - Grande compactação e modularidade
 - Reduzidas dimensões de ocupação
 - Gestão total da linha com PLC
 - Consumos específicos reduzidos
- *Liquor flow in forced counterflow*
 - *High efficiency washing "star" drums*
 - *Minimum liquor volume to fill the trough (only 350 l)*
 - *Specific consumption from 10 l/kg depending the color and type of textile processing*
 - *Best washing effect thanks to various recirculation devices and clean-water inlets (up to 3 times per minute)*
 - *Pressurised chamber containing the drum, for a perfect penetration into the fibre*
 - *Shaped profile of the pressurised chamber for an more efficient washing effect*
 - *Motors controlled by inverters*
 - *Optimised control of fabric draw, thanks to load-cells installed on each fabric transmission*
 - *Optimised filtering system after overflow, controlled by continuous reading probe*
 - *Thanks to compact and modular structure (components)*
 - *Reduced dimensions*
 - *Full management of the line via PLC*
 - *Reduced specific consumptions*

WATER AND OXYGEN HIGH PERFORMING WASHING LOW ENVIROMENTAL IMPACT



STARWASH O Starwash-Evo pode ser configurado para qualquer tipo de processo e requisitos.

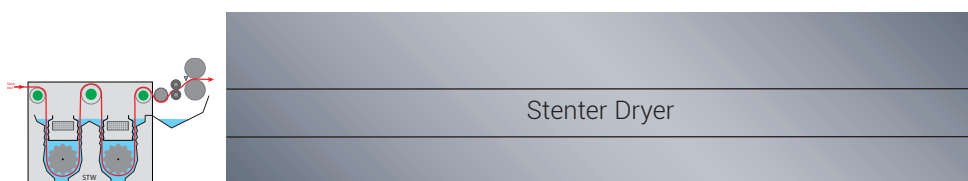
O número de tanques e sua altura podem variar dependendo do tipo de tecido processado e da produção necessária.

Os regimes mais comuns são os seguintes:

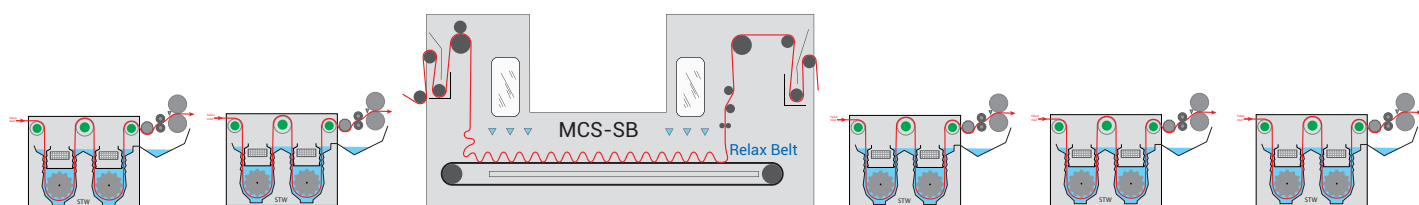
STARWASH can be configured for any type of processing and requirements.

The number of troughs and their height may vary depending on the type of fabric processed and the production required.

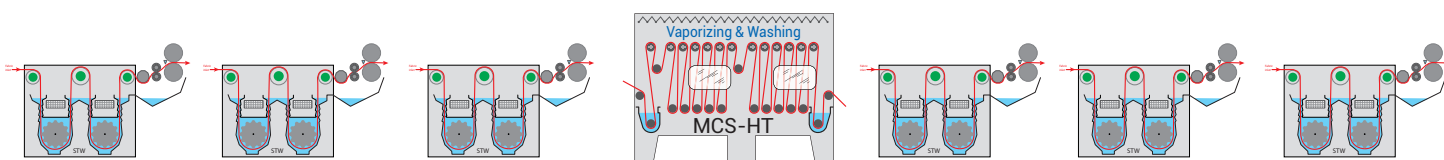
The most common ones are indicated in the schemes below:



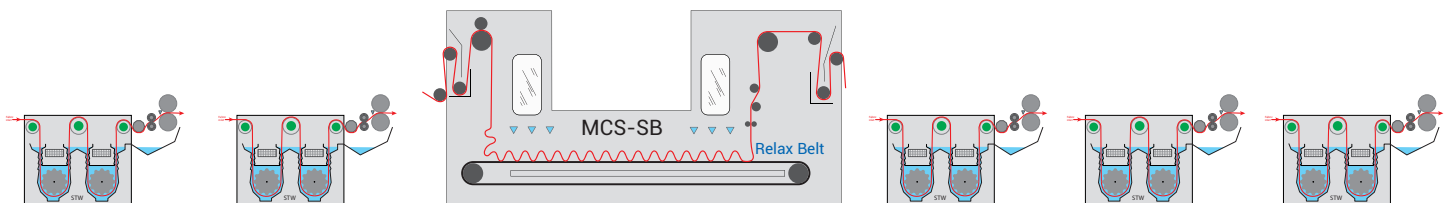
FAST SCOURING LINE



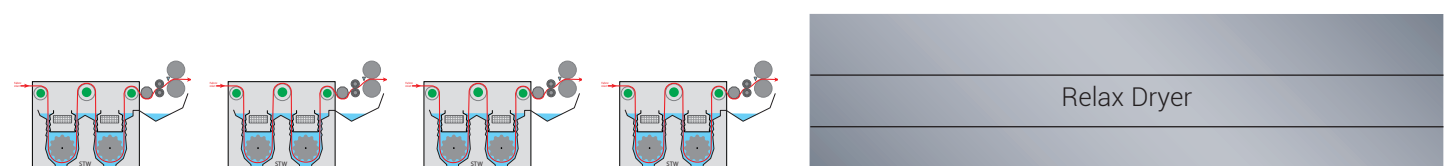
RELAX SCOURING LINE



WASHING AND WOOL CRABBING



WASHING LINE WITH RELAX BELT



WASHING LINE WITH DRYER

ALL WASHING LINES ARE AUTOMATED WITH TEMOELETRONICA SOFTWARE AND CONTROLLERS

CTRL-WASH

Painel next gen Windows 10 com touch-screen capacitiva e novo software de controle TECOP que apresenta uma interface gráfica totalmente redesenhada com sinótico dinâmico em gráficos vetoriais.

CTRL-WASH next gen windows 10 IOT with capacitive touch screen and new automation software TECOP bringing a completely new graphical interface, dynamic synoptic and vectorial graphics.



TABLET-10



O Tablet 10" Rugged IP67 Windows 10 IOT, sem instalação de software adicional, permite a conexão ao sistema para monitoramento/uso do sistema via Wifi, simplifica muito todas as interações com a máquina (start/stop).

Tablet 10" Rugged IP67 Windows 10 IOT, without any further software it allows to access to the entire system for monitoring and handling machine through wifi connection.

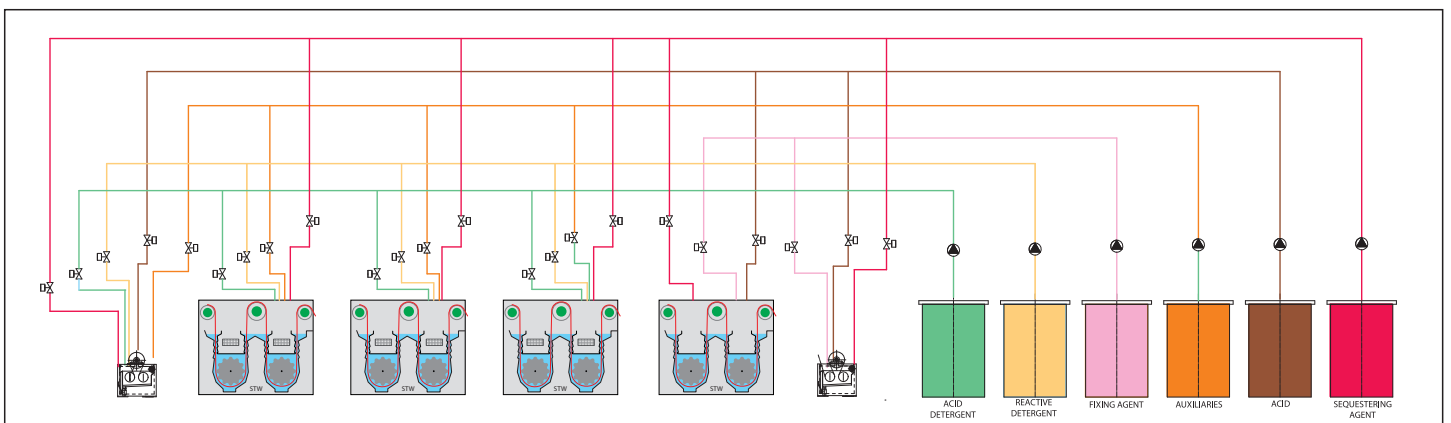
CONT-DOSING Dosing of pure products and water control in a washing line

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

- Gestão da parametrização da linha
- Gestão de planejamento
- Controle de dados da máquina em tempo real
- Base de dados de artigos

- Parametrization Handling
- Batches Handling
- Real time machines supervising
- Fabrics database

FEEL THE POWER OF WATER

DYEING & FINISHING MACHINERY



Bergamo | Italy | mcstextile.it

