

MCS

DYEING & FINISHING MACHINERY



SILURO

HIGH TEMPERATURE BEAM DYEING MACHINE



THINK BEFORE YOU PRINT

OUR HISTORY

DYEING & FINISHING MACHINERY



MCS & TERMO INNOVATION ZONE



COMMISSION ECO-DYEHOUSE



EURO PIZZI

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.



BEAM DYEING MACHINE

A máquina de tingimento de alta temperatura a o ancho SILURO é amplamente utilizada na indústria, e ainda é composta por MCS atuais e confiáveis.

Oferece uma ampla gama de modelos em linha com as exigências tecnológicas e produtivas dos nossos dias.

SILURO permite tingir artigos de tecido sintético, 100% Pes e 100% PA, em malha reta com caxemira de AC/PA; ou 100% PA mas também artigos de COT/PES; rendas de PA 100%; tricotar elástica de PA/Lycra etc...

Siluro 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.

The beam dyer for open width dyeing at high temperature is widely used in the textile industry. MCS can offer an up-dated and reliable machine in a wide range of models according to different technologic and production needs.

A big variety of articles can be dyed in SILURO machine synthetic fabrics 100% PES and 100% PA, warp-knits such as cashmere AC/PA or 100% PA, COT/PES articles, 100% PA lace, PA/LYCRA elastic knits, etc.

SILURO is entirely engineered and built in MCS.

Each new model is tested and exhibited, in our R&D department "Blue Area" integrated into the MCS group's dye-house MCS.



A HISTÓRIA DAS MÁQUINAS DE TINCIMENTO EM ABERTO MCS

1970 MCS produz o primeiro SILURO para EUROPIZZI

1983 ITMA Milão: MCS expõe o primeiro modelo de Comby Jigger-HT hidráulico

1991 ITMA Hannover: MCS apresenta os primeiros modelos de Maxi e Mid Jigger-LT hidráulicos

1999 ITMA Pari: MCS apresenta o primeiro modelo Comby Jigger-HT eletrônico

2003 ITMA Birmingham: MCS expõe Siluro Ecoturbo

2008: MCS reengenharia todos os Jigger no catálogo.

2019 ITMA Barcelona: MCS expõe o primeiro modelo de Mini Jigger-LT eletrônico e apresenta o conceito do Double Jlgger C4-143.

2023 ITMA Milão: MCS expõe o primeiro Double Jigger C4-143.

HISTORY OF MCS OPEN-WIDTH MACHINES

1970 MCS produced the first Siluro for Europizzi

1983 ITMA - Milan: MCS exhibits the first hydraulic Comby Jigger-HT model

1991 ITMA - Hannover: MCS exhibits the first hydraulic Maxi and Mid Jigger-LT models

1999 ITMA - Paris: MCS exhibits the first electronic Comby Jigger-HT model

2003 ITMA - Birmingham: MCS exhibits Siluro Ecoturbo

2008: MCS re-engineering all the Jiggers in the catalog.

2019 ITMA Barcelona: MCS exhibits the first electronic Mini Jigger-LT model and the concept of the Comby Jigger C4.

2023 ITMA Barcelona: MCS exhibits the first model of the Comby Jigger HT-C4.

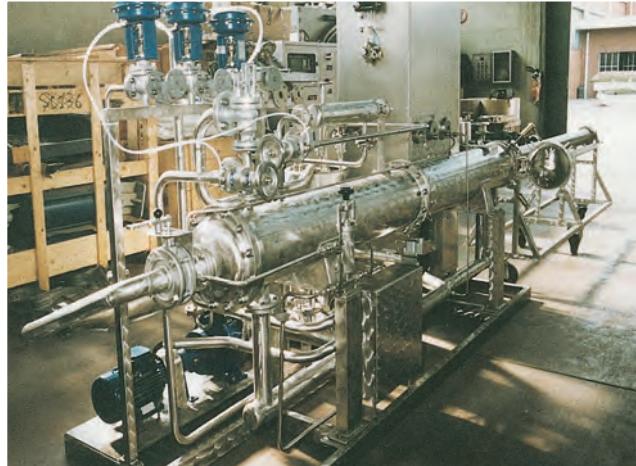
BEAM DYEING MACHINE

CARACTÉRISTICAS

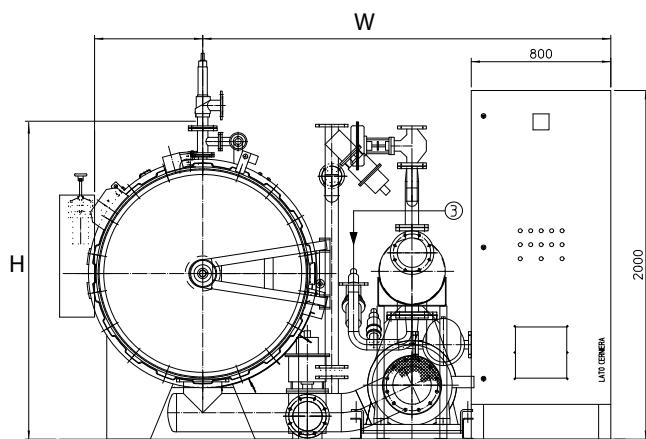
- Relação mínima da solução líquida 1:5
- Jacto simples ou duplo de diâmetros diferentes
- Reservatório de expansão aberto (ou fechado pressurizado)
- Aquecimento por jacto, óleo diatérmico ou água aquecida, através de um permutador de calor externo.
- Controlo automático da pressão da bomba interior/exterior
- Regulação totalmente automática com PC industrial PCx-TEx, da Termoelettronica
- Preparado para cozinha de tingimento computadorizada
- Sistema de dosagem de álcali
- Sistema de purga rápida da solução líquida, modelo MQD
- 2º reservatório auxiliar de produtos, com sondas pneumáticas de nível e misturador

MAIN FEATURES

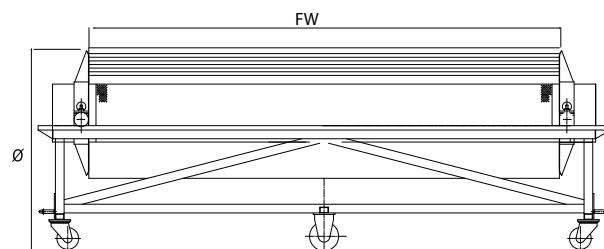
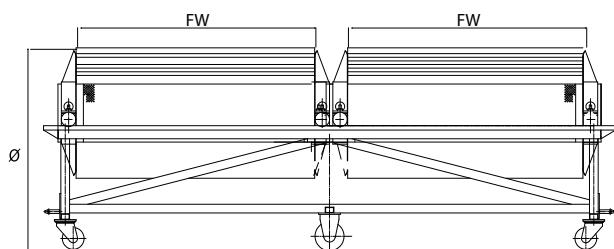
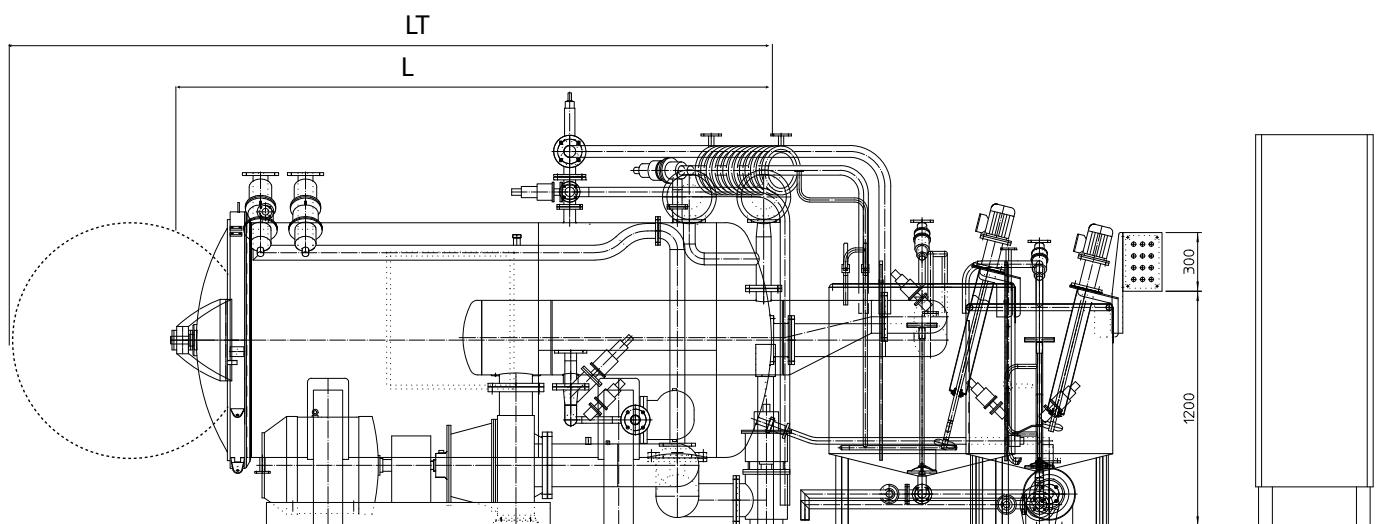
- Minimum liquor ratio 1:5
- Single and/or double beams of different diameter
- Expansion tank, open or pressurised
- Heating by steam, diathermic oil or overheated water, through an external heat-exchanger
- Pump pressure with automatic control inside/outside
- Micro touch-screen by Termoelettronica model PCx-TEx
- Pre-arrangement for computerised dyestuff-kitchen
- Product dosing system.
- Drain by main pump, mod. MQD
- 2° side tank for products, with pneumatic level probes and mixer



BEAM DYEING MACHINE



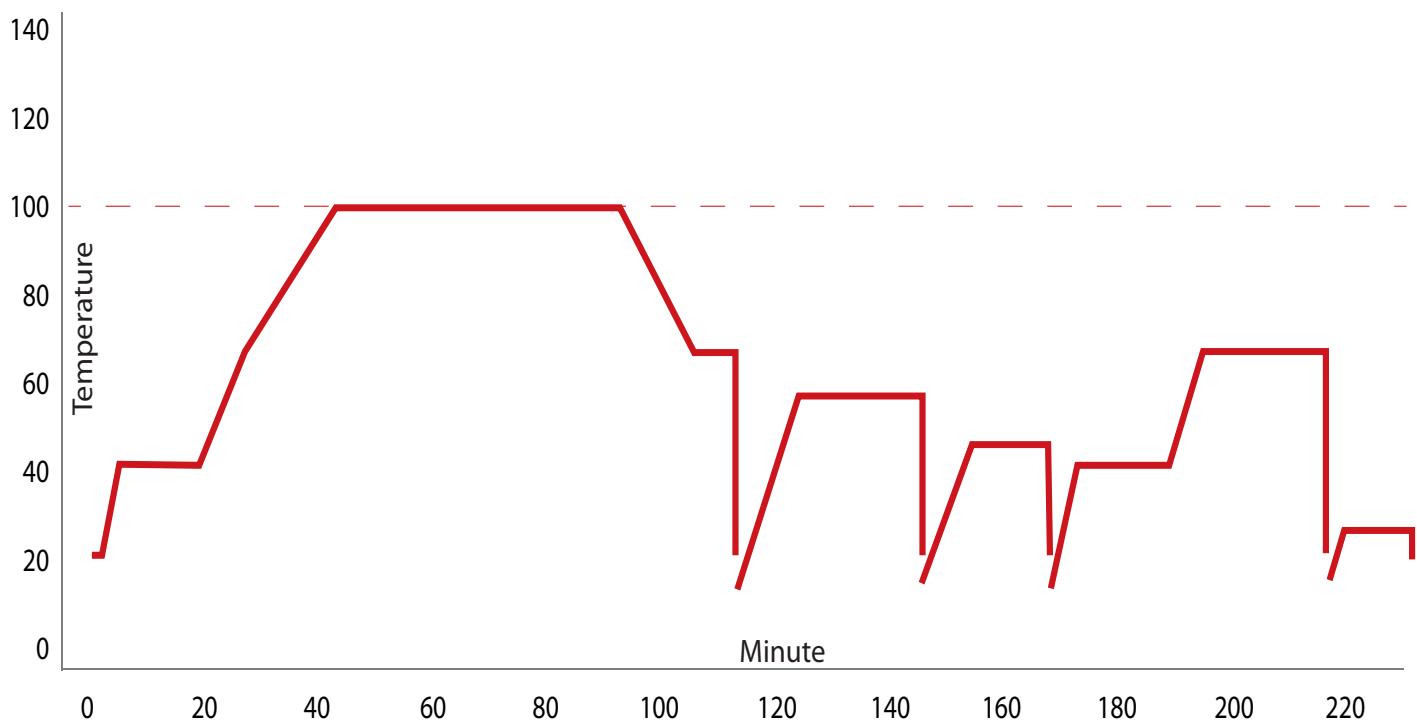
MCS reserve the right to change technical data and specifications without prior notice.



| | AT 08/273 | AT 09/650 | AT 10/856 | AT 11/1027 | AT 12/1200 | AT 13/1400 | AT 14/1600 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| FW [mm] | 1600 - 4200 | 1600 - 4200 | 1600 - 4200 | 1600 - 4200 | 1600 - 4200 | 1600 - 4200 | 1600 - 4200 |
| Beam ø [mm] | 200 | 530 | 740 | 910 | 1080 | 1280 | 1490 |
| W [mm] | 1200 | 1900 | 2200 | 2400 | 2750 | 3000 | 3500 |
| H [mm] | 1800 | 2000 | 2000 | 2000 | 2500 | 2500 | 2850 |
| L [mm] | 3000 | 3350 | 3550 | 3650 | 3900 | 4000 | 4100 |
| LT [mm] | 3300 | 3750 | 4100 | 4500 | 4700 | 4900 | 5200 |

DYEING REPORT

SILURO



| FABRIC FEATURES AT14-4200 (Double Beam) | |
|--------------------------------------------|----------------|
| Article | KNITTED FABRIC |
| Composition | 80% PA 20% LY |
| Colour | BLACK |
| Weight [gr/m] | 280 |
| Weight [gr/m ²] | 180 |
| Width [cm] | 155 |
| Lot [Kg] | 1020 |
| Lot [m] | 3640 |
| Preparation | Pre Setting |
| Finishing | Stenter |
| Remarks | = |

| MACHINE REGULATION AT14-4200 (Double Beam) | |
|-----------------------------------------------|------|
| Delivery regul. circul. pump | 1050 |
| Internal pressure [bar] | 4,2 |
| External pressure [bar] | 3,1 |
| Thickness [mm] | 34 |
| Beam diametre [mm] | 600 |
| Liquor ratio [l/Kg] | 6,2 |
| First filling [l] | 6400 |
| Next. fillings [l] | 5100 |

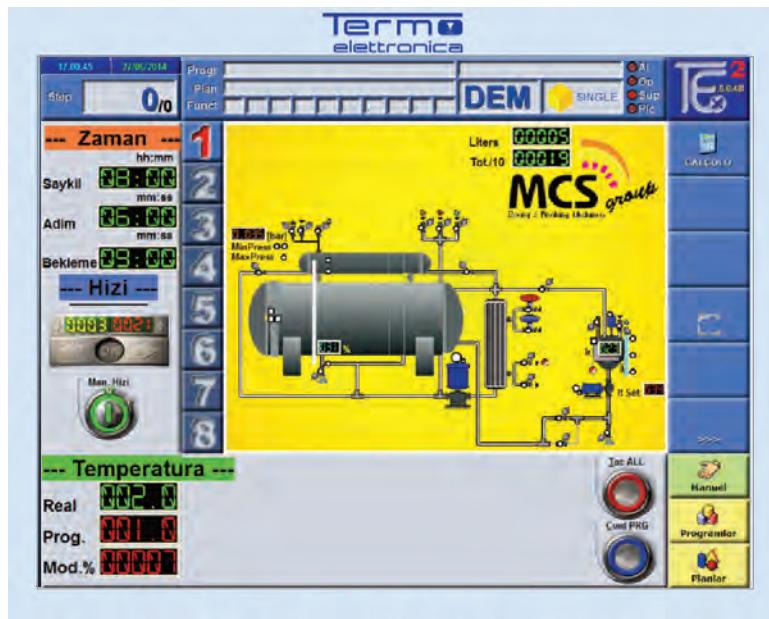
| RESULTS | |
|----------------------------|--------|
| Water consum. [l] | 26800 |
| Water per kg fabric [l/kg] | 26,27 |
| Steam consum. [Kgs] | 2885 |
| Steam fabric [Kgs/Kg] | 2,82 |
| Energy kg fabric [Kw/Kg] | 0,105 |
| Real time [1'] | 232 |
| Program N. | 00-362 |

AUXILIARES

| DYESTUFF | |
|----------|---------------|
| C | Acid Dyestuff |

- A Levelling agent + Buffer
- B Sodium Hydrosulfite + Soda ASH
- D Acetic Acid
- E Fixing Ag.

CTRL-DYE



Painel de operador desenvolvido no windows para implementar de forma avançada todas as funções de diagnóstico, monitoramento e automação das máquinas de tingimento.

Pantalla toque 15", projetado especificamente para uso industrial: cada função é mais fácil e imediatamente acessível.

A pedido, você pode usar qualquer micro disponível no mercado.

Operation 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.

TEXMANAGER 4.0

Software de gestão de produção integrada que inclui:

Gestão do pessoal

Optimização dos recursos humanos

Gestão de máquinas

Gestão de departamentos de produção

Gestão de armazéns

Integrated production management software including:

Personnel Management

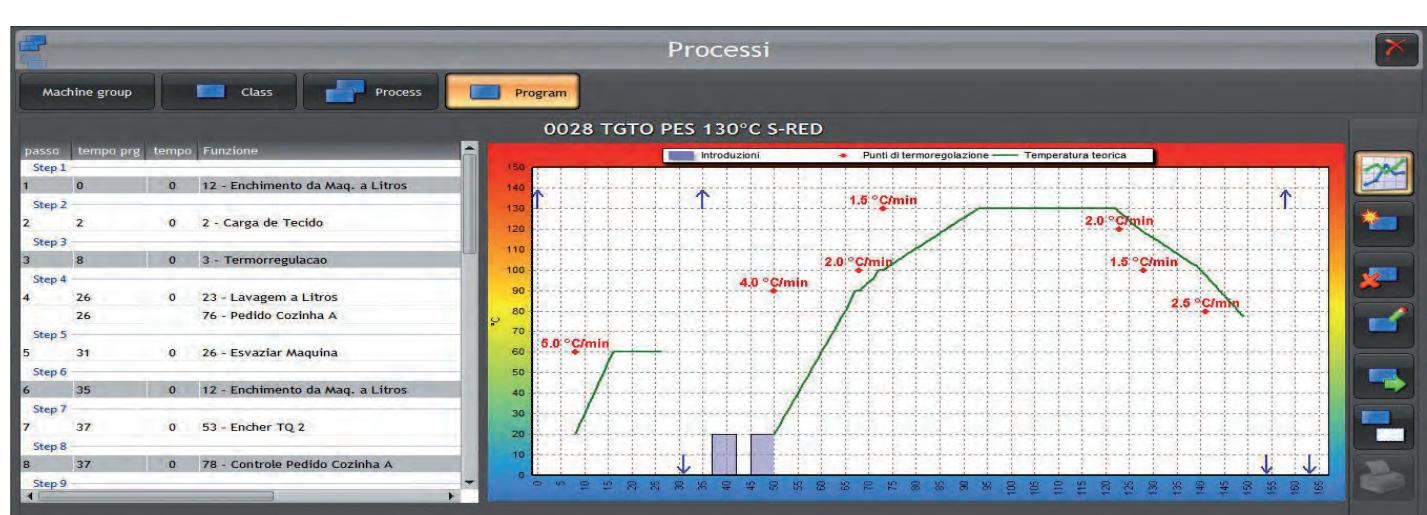
Optimization of human resources

Management of machinery

Software for integrated Production Management

Management of production departments

Warehouse management



FEEL THE POWER OF WATER

DYEING & FINISHING MACHINERY



MCS
Bergamo | Italy | mcstextile.it