



MCS

DYEING & FINISHING MACHINERY



SILURO

HIGH TEMPERATURE BEAM DYEING MACHINE



OUR HISTORY



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.

COMMISSION ECO-DYEHOUSE

EUROPIZZI



mcsgroup.it
Bergamo - Italy

member of
ACIAT
ITALIAN TEXTILE MACHINERY



BEAM DYEING MACHINE

La macchina di tintura in largo su subbio ad alta temperatura è di comune e largo impiego nel settore, e tuttora è resa attuale ed affidabile dalla MCS. Propone un vasto programma di modelli in linea con le esigenze tecnologiche e produttive dei nostri giorni.

SILURO permette di tingere articoli di tessuto sintetico, di 100% Pes e 100% PA, di maglieria rettilinea con cachemire di AC/PA; oppure 100% PA ma anche articoli di COT/PES; pizzo di PA 100%; maglieria elastica di PA/Lycra etc...

Siluro è interamente ingegnerizzato e costruito in MCS.

Ogni nuovo modello viene testato ed esposto, in INNOVATIVE BLUE AREA integrato nella tintoria del gruppo 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 technological 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.



LA STORIA DELLE MACCHINE IN APERTO MCS

- 1970 MCS produce il primo SILURO per EUROPIZZI
- 1983 ITMA Milano: MCS espone il primo modello di Comby Jigger-HT idraulico
- 1991 ITMA Hannover: MCS espone i primi modelli di Maxi e Mid Jigger-LT idraulici
- 1999 ITMA Pargi: MCS espone il primo modello Comby Jigger-HT elettronico
- 2003 ITMA Birmingham: MCS espone Siluro Ecoturbo
- 2008: MCS reingegnerizza tutti i Jiggers a catalogo.
- 2019 ITMA Barcelona: MCS espone il primo modello di Mini Jigger-LT elettronico e il concept del Double Jigger C4-143
- 2023 ITMA Milano: MCS espone il primo 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.

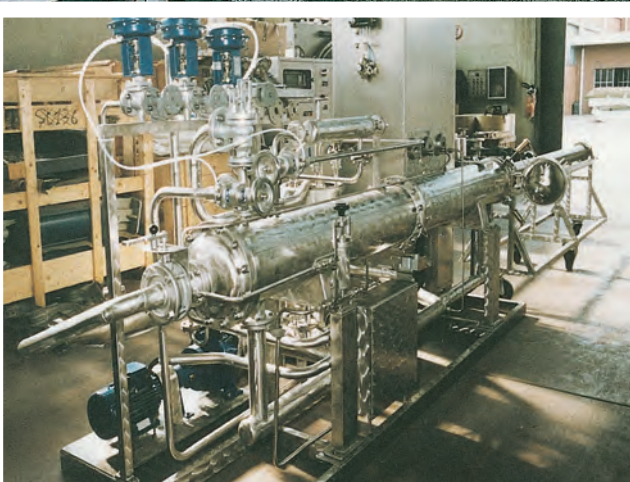
BEAM DYEING MACHINE

CARATTERISTICHE

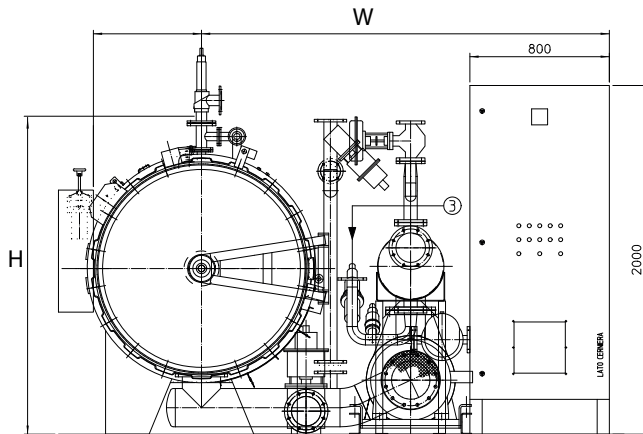
- Rapporto bagno minimo 1:5
- Subbio semplice e/o gemellato di diverso diametro
- Vaso di espansione aperto (o chiuso pressurizzato)
- Riscaldamento indiretto.
- Controllo automatico della pressione della pompa
- Regolazione completamente automatica con PC industriale PCx-TEx, by Termoelettronica
- Predisposizione con cucina colori centralizzata
- Sistema di dosaggio d'alcali
- Sistema scarico bagno rapido modelo MQD
- 2° serbatoio d'aggiunta prodotti completo di mixer

MAIN FEATURES

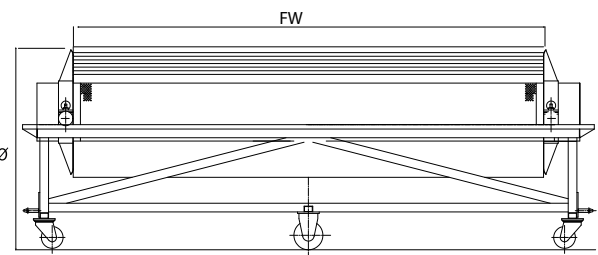
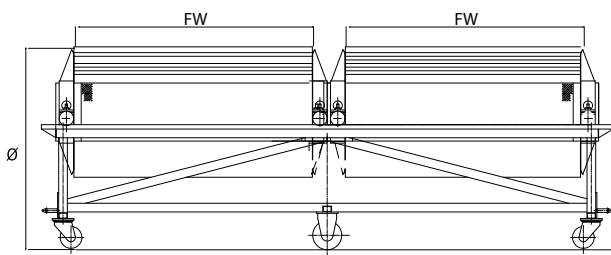
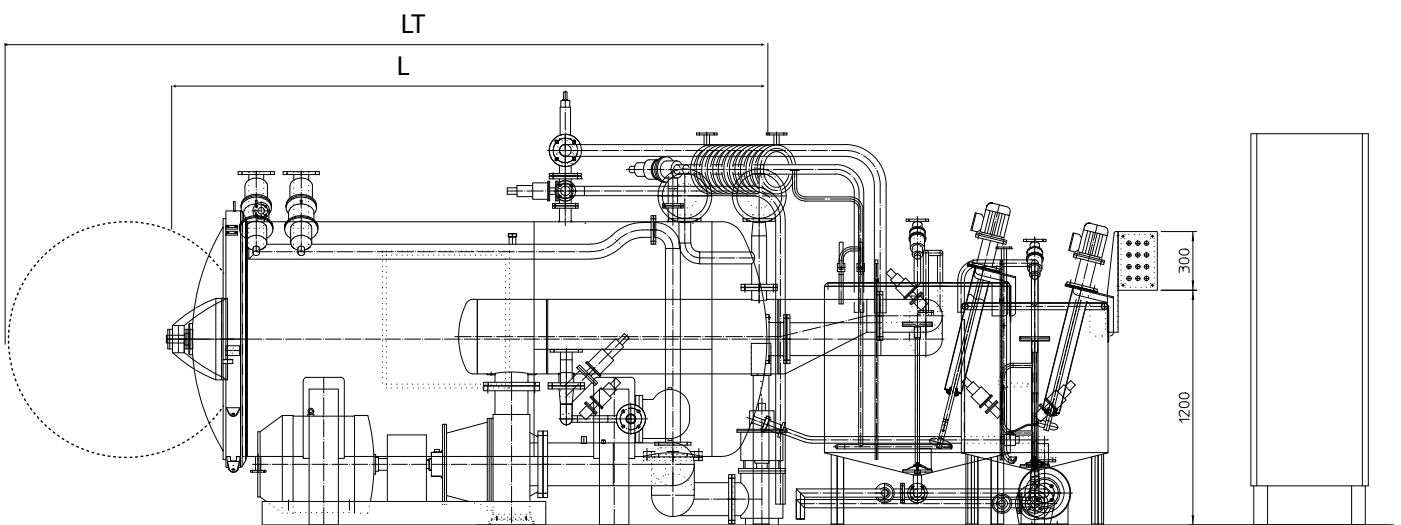
- *Minimum liquor ratio 1:5*
- *Single and/or double beams of different diameter*
- *Expansion tank, open or pressurised*
- *Heating by steam, diathermic oil or overheated water, through an external heat-exchanger*
- *Pump pressure with automatic control inside/outside*
- *Micro touch-screen by Termoelettronica 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



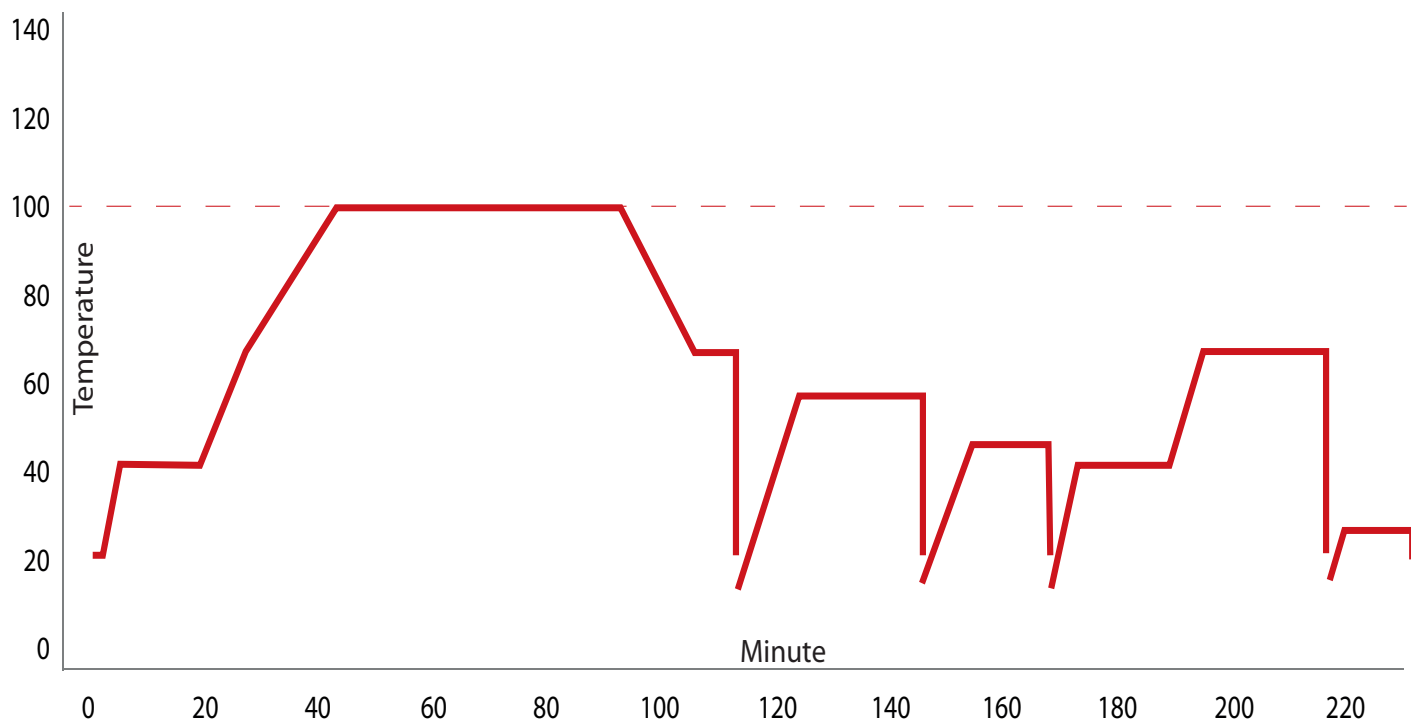
MCS reserve the right to change technical data and specifications without prior notice.



	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 \varnothing [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

DYESTUFF

C Acid Dyestuff

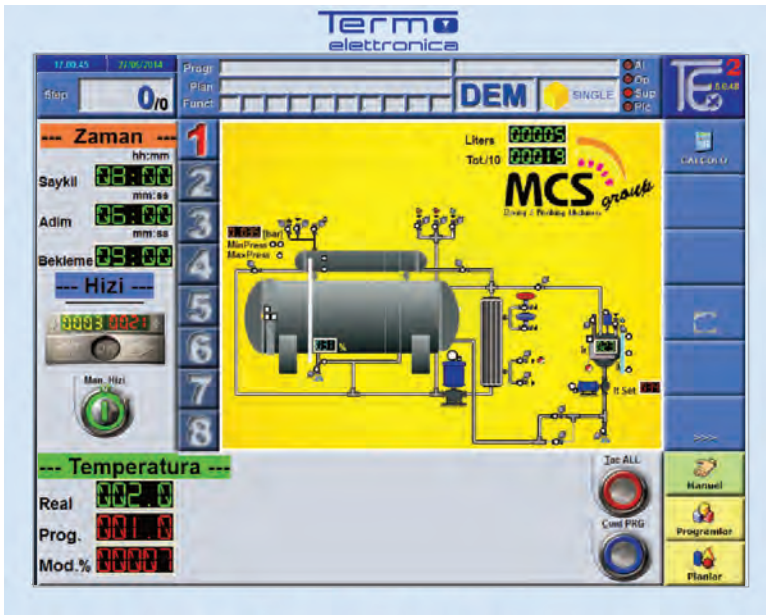
RESULTS

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 [l']	232
Program N.	00-362

AUXILIARES

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

CTRL-DYE



Pannello operatore sviluppato in ambiente windows per implementare in modo avanzato tutte le funzionalità diagnostiche, di monitoraggio e di automazione delle macchine di tintura.

Schermo tattile touch-screen da 15", progettato espressamente per l'impiego industriale, ogni funzionalità risulta di facile ed immediato accesso.

A richiesta è possibile l'impiego di qualsiasi micro disponibile sul mercato.

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.

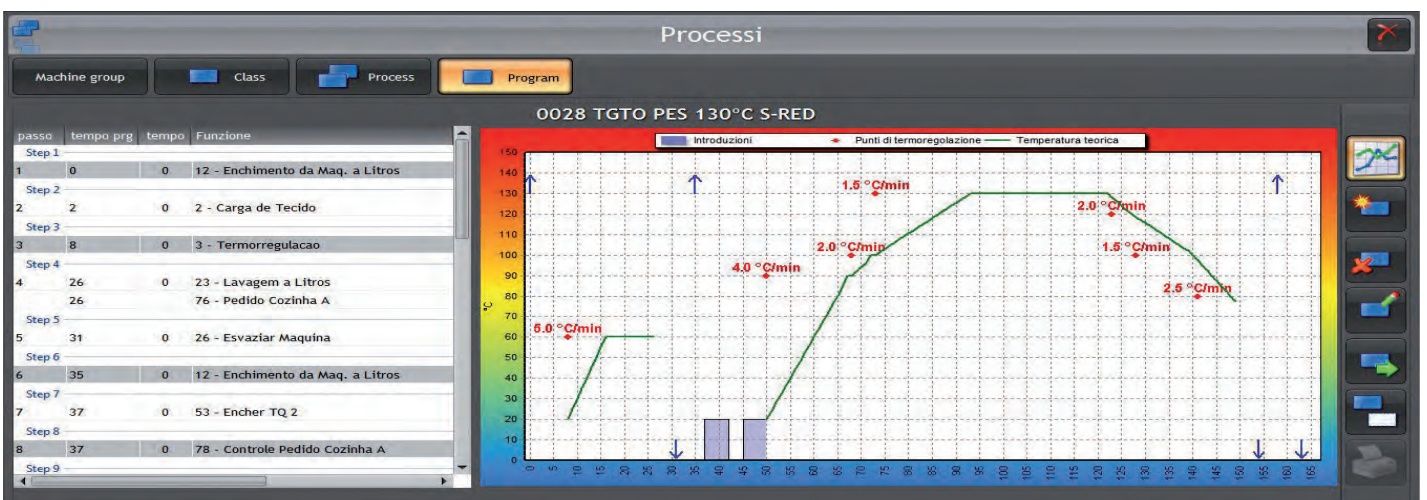
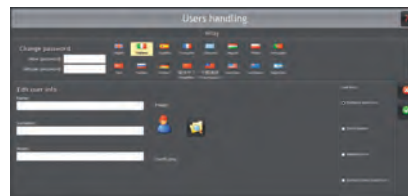
TEXMANAGER 4.0

Software integrato per la gestione della produzione che include:

- Gestione del personale
- Ottimizzazione delle risorse umane
- Gestione dei macchinari
- Gestione Reparti produttivi
- Gestione Magazzino

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



THINK BEFORE YOU PRINT