

MCS

DYEING & FINISHING MACHINERY

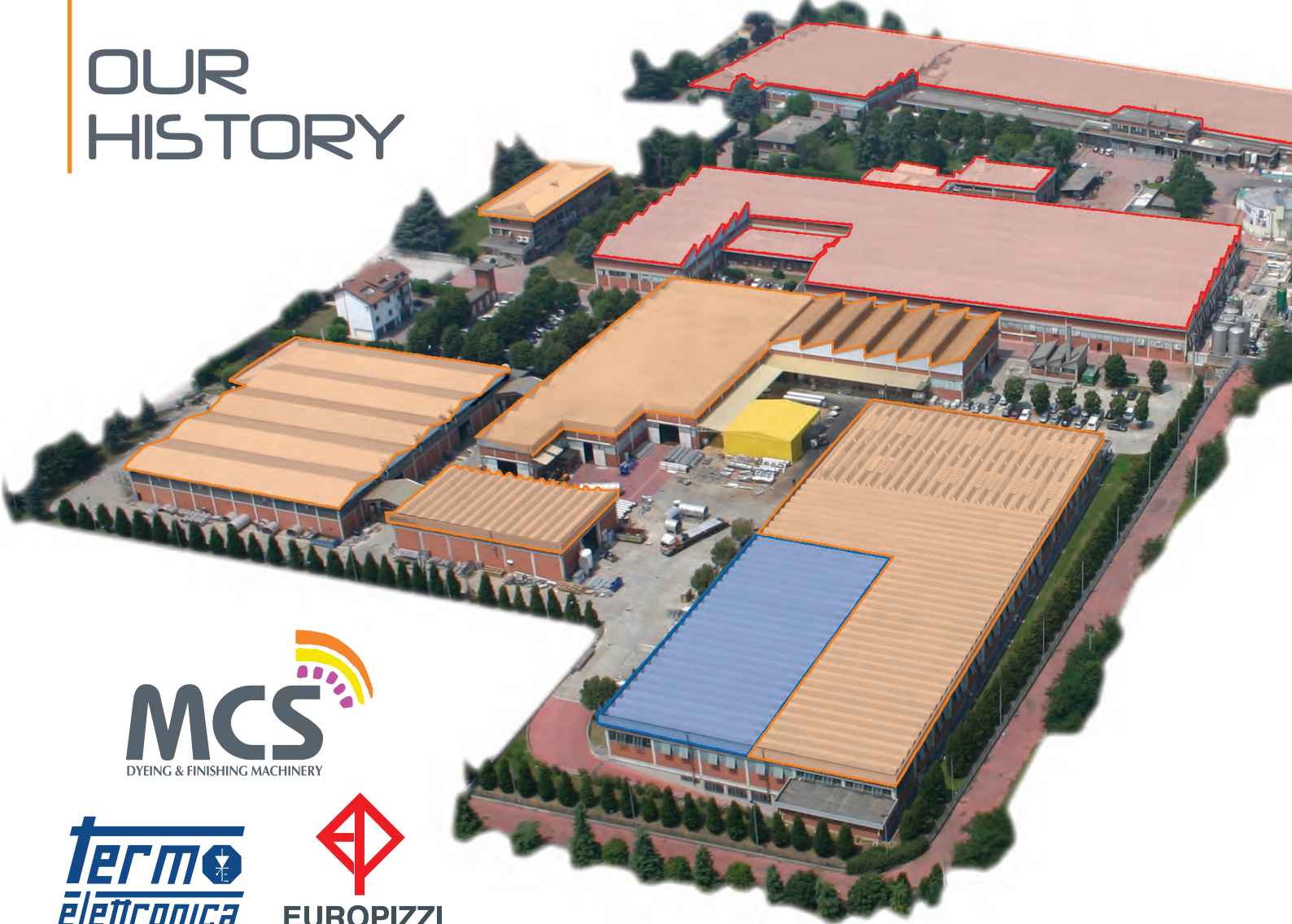
*Your ideal partner since 1963,
which means reliability, research and innovation.*



SOFTFLOW 99

HORIZONTAL LT ROPE DYEING MACHINE

OUR HISTORY



1963

Luigi Chiappini, Angelo Cagnazzo e Roberto Sopegno fundan MCS SpA. Luigi Chiappini será el presidente.

Luigi Chiappini, Angelo Cagnazzo e Roberto Sopegno founding MCS. Luigi Chiappini is the Chairman of the Board.

1964

MCS inicia sus actividades con la fabricación de accesorios para máquinas de tintura.

MCS begins its activity with the production of accessories for dyeing machines.

1967

MCS produce la prima máquina de cuerda con temperatura baja.

MCS manufactures the first low temperature rope dyeing machine.

1968

Inicio de las actividades de Europizzi tintorería y estampería productora de productos auxiliares del grupo MCS. *Europizzi begins its activity, dyeing, printing, producer of auxiliary products within MCS group.*

1971 ITMA - Paris

MCS expone el primer modelo de chorro con temperatura baja.

MCS exhibits the first low temperature jet model.

1974

MCS inicia el estudio diseño de las líneas al ancho.

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

1979 ITMA - Hannover

MCS expone: Jet HT, Overflow MO/80 LT, MRS65.

MCS exhibits: Jet HT, Overflow MO/80 LT, MRS65.

1980

Inicio de las actividades de Europea, tintorería y resinado del grupo.

Europea activity begins, group dyeing and resining company.

1983 ITMA - Milan

MCS expone: mercerización tubular MT26, soft flow SF82 BT/HT, flow/jet OF83, CombyJigger

HT, línea de lavado en cuerda WR.

MCS exhibits: tubular mercerizer MT26, Soft Flow SF82 LT/HT, Flow/jet OF83, Comby Jigger HT, rope washing machine model WR.

1987 ITMA - Paris

MCS expone Pandora.

MCS exhibits Pandora.

1991 ITMA - Hannover,

MCS expone: Tornado Tumbler, Maxi & Mid Jiggers, Lavaprint.

MCS exhibits: Tornado Tumbler, Maxi & Mid Jiggers, Lavaprint.

1995 ITMA - Milan

MCS expone: Soft Flow, Long Horn, fabric wet sueding machine Pumex.

MCS exhibits: Soft Flow, Long Horn, fabric wet sueding machine Pumex.

1999 ITMA - Paris

MCS expone: Multiflow, Soft Flow Evolution SF100, Comby electronic Jigger.

MCS exhibits: Multiflow, Soft Flow Evolution SF100, Comby electronic Jigger.



MCS GROUP



MCS SpA está a la cabeza de un grupo mecánico-textil que empieza sus actividades a finales de los años 60.

MCS SpA is the leader of a group of companies in the textile machinery industry, starting their activity at the beginning of the '60s.

ESTA INCLUYE:

- **TERMoeLETRONICA** que produce dispositivos para automoción industrial (dosificaciones automáticas) y sistemas de control.
- **EUROPIZZI**, tintorería, estampería, acabados y productora de auxiliares químicos para industria textil y otras.
La producción diaria puede llegar a las 30 toneladas de tejido de punto y los 50.000 m de tejido plano.

El catálogo MCS-Termoelettronica incluye:

- Máquinas de tinte en cuerda a alta y baja temperatura
- Máquinas de tinte en abierto (jigger y autoclaves) a alta y baja temperatura
- Sistemas de control de proceso
- Líneas de preparación y lavado en cuerda
- Líneas en abierto para mercerización, blanqueo y lavado para tejidos de punto y ortogonales
- Dispositivos para dosificación de los auxiliares químicos
- Dispositivos para dosificación polvos para tintorerías-estamperías
- Dispositivos para dosificación de la sal
- Sistemas SW de automoción

MCS GROUP INCLUDES:

- Termoelettronica manufacturer of industrial automation systems (automatic dosing) and control systems.
- Europizzi, dye-house, printing-house, finishing and producer of chemical auxiliaries for the textile industry and other application fields. Daily production at Europizzi is 30 tons of knits and 50.000 metres of woven fabrics.

The catalogue of MCS-Termoelettronica machines includes:

- Rope dyeing machines at high and atmospheric temperature
- Open-width dyeing machines (jiggers and beam dyers) at high and atmospheric temperature
- Systems for process control
- Preparation and washing ranges in rope form
- Open-width ranges for mercerising, bleaching and washing of knitted and woven fabrics
- Dosing systems for chemical auxiliaries
- Dosing systems of powders for dye-house and printing-house
- Dosing systems for salt
- SW systems for automation

2000

MCS adquiere el 100% de la propiedad de **Termoelettronica**. *MCS acquires 100% of Termoelettronica ownership.*

2003 ITMA - Birmingham

MCS expone: Multiflow Superior, Ecoturbo Beam Dyeing Machine.

MCS exhibits: Multiflow Superior, Ecoturbo Beam Dyeing Machine.

2005 IKME - Milan

Prototipo de la empresa Universal Dyeing y de la VDA.

Prototypes of Universal Dyeng and of the VDA.

2007 ITMA - Munich

MCS expone: Universal Dyeing, First Vento, Tumbler Mistral, sistemas de control de proceso Coltex y VDA.

MCS exhibits: Universal Dyeing, First Vento, Tumbler Mistral, process control systems Coltex and VDA.

2008

Rediseño de todos los modelos de los Jigger de

temperatura alta y baja.

Redesigning of all high and low temperature Jigger models.

2009

Lanzamiento y comercialización máquina de tinte en cuerda horizontal Itálica.

Presentation and sale of orizzontal rope dyeing machine model Itálica.

2011 ITMA - Barcellona

MCS expone: Dynamica, Star Wash, Comby Jigger, Supervisor Texmanager.

MCS presenta: Dynamica, Star Wash, Comby Jigger, Supervisor Texmanager.

2013

MCS celebra los 50 años de actividad con el arranque de la mas grande linea en abierto de descruce, blanqueo, lavado, jamas construida i con la venta de la nueva maquina de tinte Smartflow. *MCS celebrate their 50th anniversary by starting the biggest open-width preparation line in their history (scouring-bleaching-washing) and by introducing the new HT round dyeing machine, Smartflow.*

2014 ITMA - Shanghai

MCS expone la evolución de la gama de lavado Starwash, ideal para el restregado y después del lavado de impresión.

MCS exhibits evolution of Starwash washing range, ideal for scouring and after print washing.

2015 ITMA - Milan

MCS expone: Multiwash, Dynamica Sprint, Starwash FS. **Termoelettronica** presenta: Termopowder XP, Texmanager XP, Termochem XP.

MCS exhibits: Multiwash, Dynamica Sprint, Starwash FS.

Termoelettronica exhibits: Termopowder XP, Texmanager XP, Termochem XP.

2019

MCS expone: Lavaprint Next (Starwash + Multiwash), Dynamica Sprint, Mini Jigger 98

MCS presenta: C4 Comby Jigger 143; Softflow 18-HT. **Termoelettronica** espone: Termochem XP, Texmanager.

MCS exhibits: Lavaprint Next (Starwash + Multiwash), Dynamica Sprint, Mini Jigger 98

MCS introduces: C4 Comby Jigger 143; Softflow 18-HT. Termoelettronica exhibits: Termochem XP, Texmanager.

SOFTFLOW 99

HORIZONTAL LT DYEING MACHINE

La SOFT FLOW SF99 es el modo ideal de teñir tejidos y calcetería con estructura sensible y delicada. Esta máquina resulta ser la confirmación definitiva de la indiscutible versatilidad del depósito horizontal. Esta característica de base unida al sistema de arrastre del tejido permiten el empleo del SOFT FLOW SF99 con artículos elásticos como jersey de algodón/licra o viscosa acetato, lana/viscosa, lana/seda, viscosa/seda.

The SOFT FLOW SF99 is the best way to dye very delicate knitted and woven fabrics. This machine definitively confirms the real versatility of the horizontal fabric deposit. This characteristic combined with the dragging system allows the use of the SOFT FLOW SF 99 with elastic articles such as jersey, cotton/lycra or viscose, acetate, wool/viscose, wool/silk, viscose/silk.

The versatility of the machine is given by its use for both knitted and woven fabrics.

AVAILABLE IN STANDARD MODEL

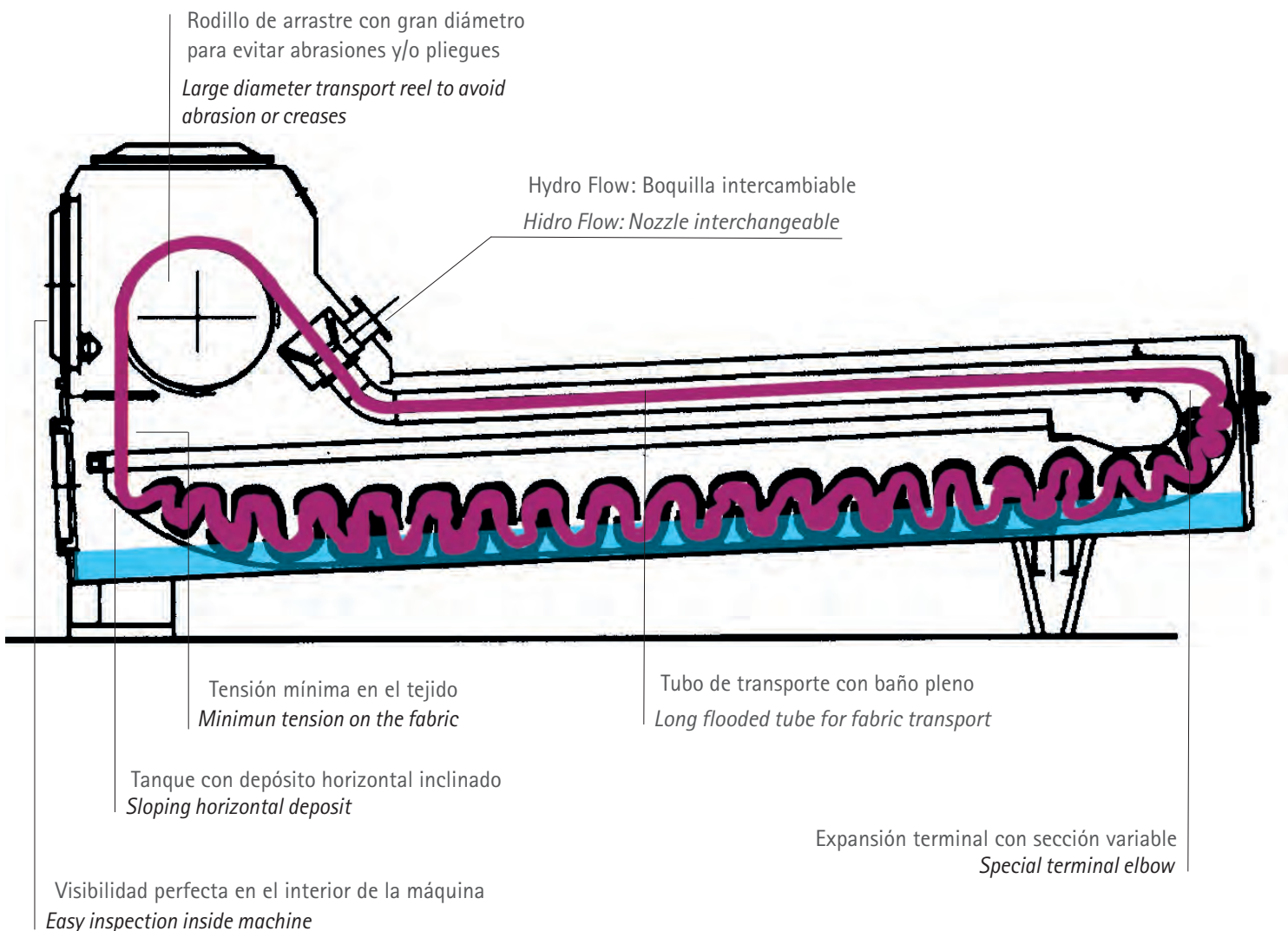


SPECIAL VERSIONS FOR SILK OR WOOL

TECNICAL DATA

- Método de transporte tradicional, confirmado y evolucionado por la experiencia con atención a la apremiante temática energética
- El rodillo de arrastre motorizado con gran diámetro para evitar problemas de abrasión y pliegues
- Tubo largo de transporte con tejido a pleno baño
- Expansión terminal del tubo de transporte en curva de sección adecuada para "ralentizar" el tejido en el depósito
- Distancia reducida entre rodillo de arrastre y depósito del tejido
- Automatización simple y funcional
- Temperatura de empleo: 98° C 108° C
- Relación baño mínima: 1/6
- Modelos estándar: de 1 cuerda a 12
- Filtros de grandes dimensiones con cestas intercambiables
- Intercambiador de calor con alta eficiencia
- Cuadro eléctrico con microprocesador con pantalla táctil PCX-15
- Posibilidad de acabado con chorreado de arena o floreado

- Traditional fabric transport system, but with adequate solutions for energy saving
- The motorized reel with a large diameter to avoid problems of abrasion and folds
- Fully flooded long transport tube
- Larger transport tube end into a transmission elbow with adequate shape for an easy deposit of the fabric into the trough
- Reduced distance between dragging roller and fabric deposit
- Easy and functional automation
- Working temperature: 98°C - 108°C
- Minimum liquor ratio: 1/6
- Standard machines from 1 to 12 ropes
- External filter with modular baskets
- High efficiency heat exchanger
- Electrical panel with microprocessor PCX-15 touch screen
- Machine finishing: either sand-blasted or spaghetti



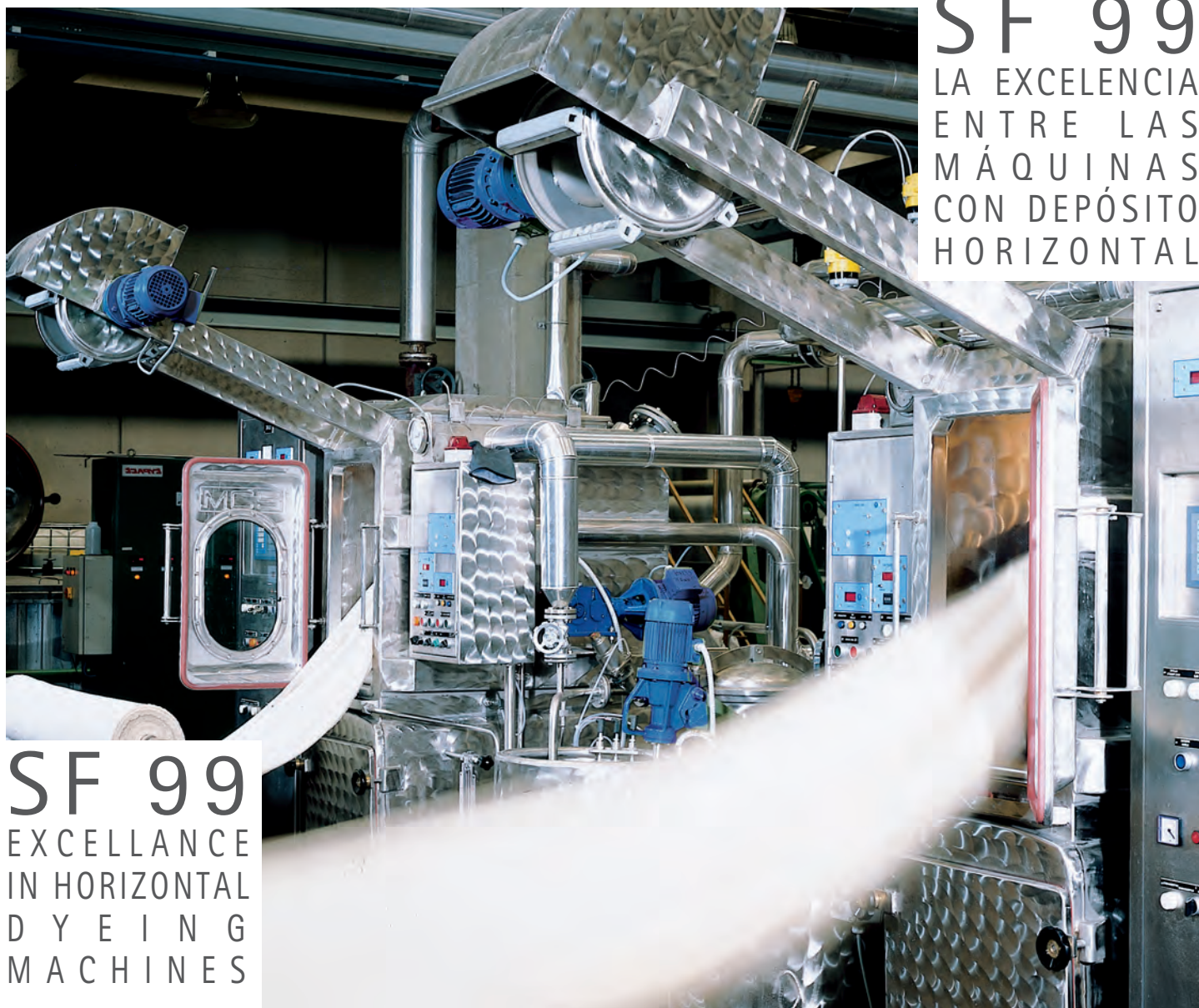
STANDARD EQUIPMENT

Two side-tanks for products, each one complete with its own mixer, pneumatic probe, heating coil, liquor recycling to make product dissolving and mixing much easier.

Thanks to these equipments down times and waiting times are much reduced, also in case of automatic dispensing systems.

Depósito doble para la adición de productos con mezclador, sonda neumática, serpentina de calentamiento y baño de recirculación máquina para facilitar las funciones de mezcla y disolución de productos.

Gracias a dicho sistema se reducen los tiempos muertos y los tiempos de espera incluso en presencia de sistemas automáticos de distribución.



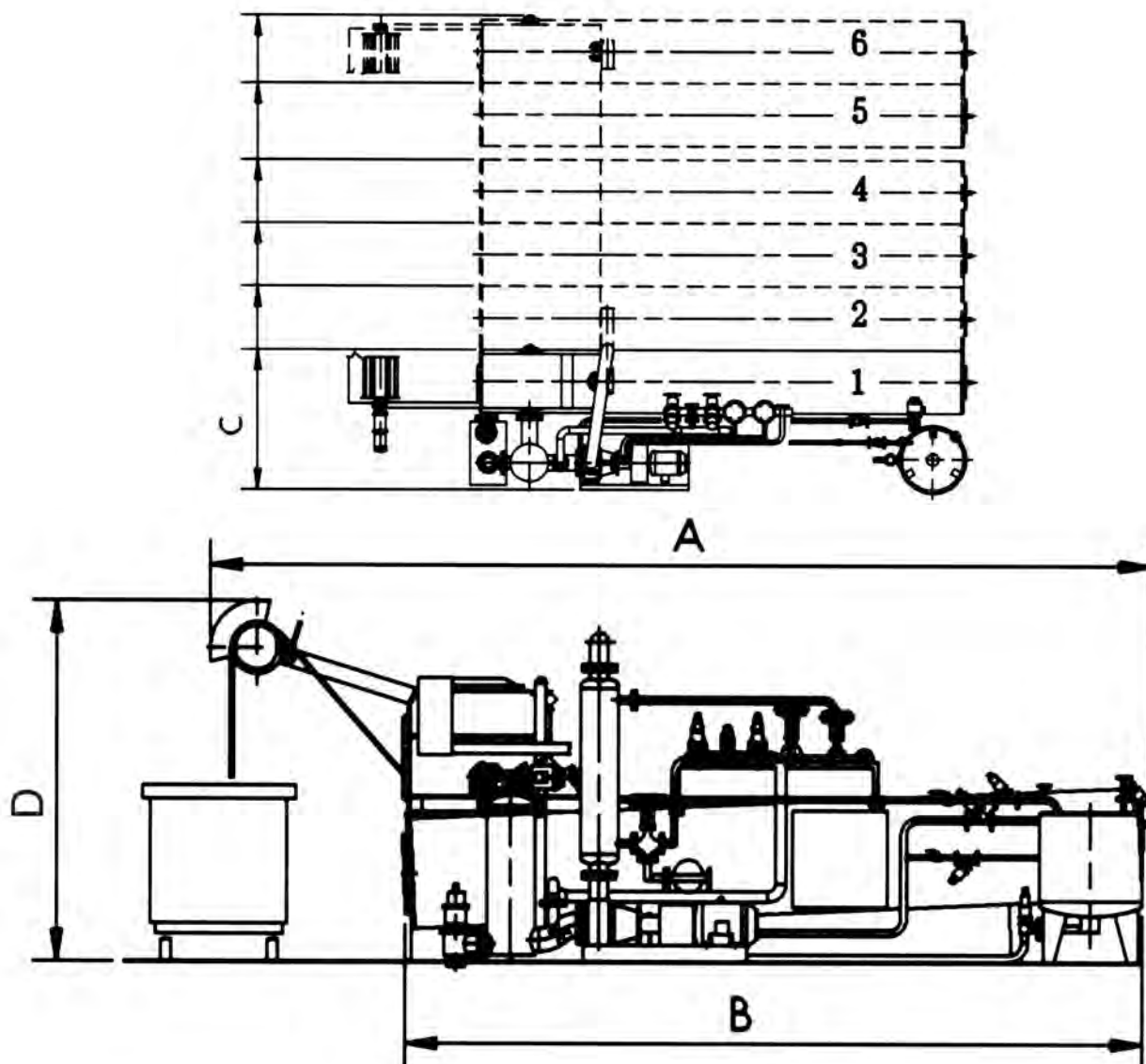
SF 99
LA EXCELENCIA
ENTRE LAS
MÁQUINAS
CON DEPÓSITO
HORIZONTAL

SF 99
EXCELLANCE
IN HORIZONTAL
DYEING
MACHINES

MODELS DATA

	Loading [Kg]	Loading [Lbs]	A [mm]	B [mm]	C [mm]	D [mm]
SF99-1S44	100	220	6900	5400	1550	3000
SF99-2S44	200	440	6900	5400	2100	3000
SF99-3S44	300	660	6900	5400	2700	3000
SF99-4S44	400	880	6900	5400	3400	3000
SF99-5S44	500	1100	6900	5400	3900	3000
SF99-6S44	600	1320	6900	5400	5000	3000

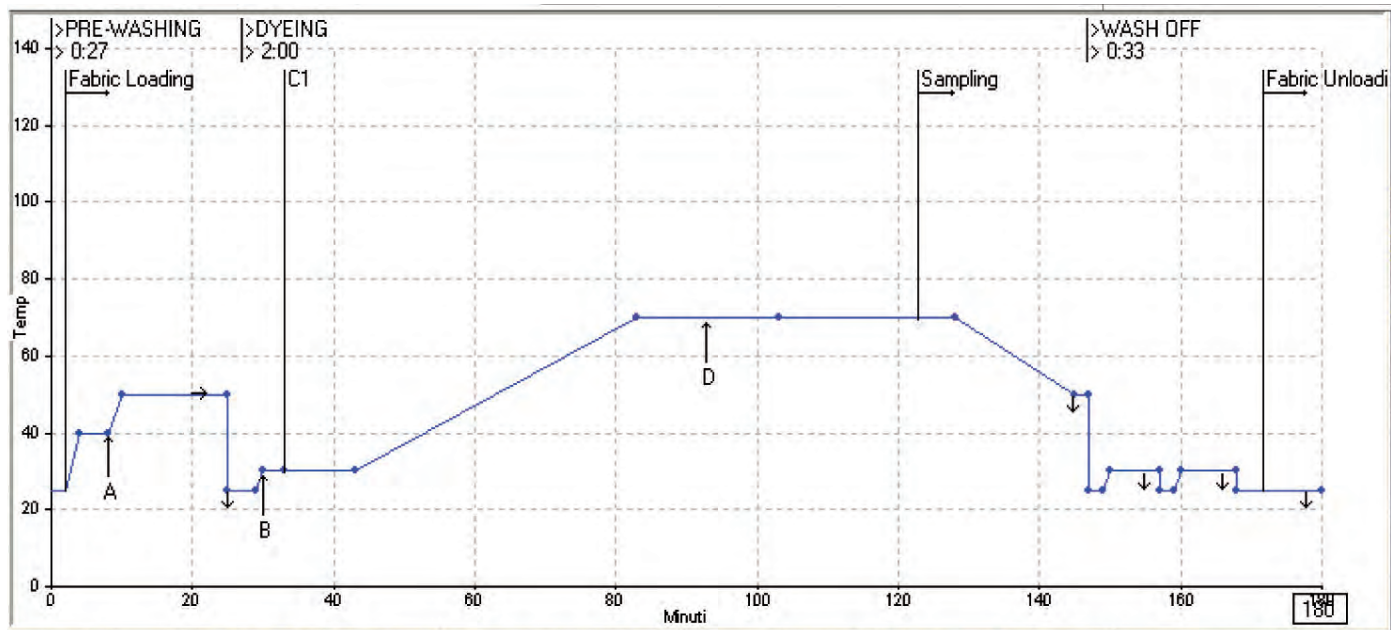
	Loading [Kg]	Loading [Lbs]	A [mm]	B [mm]	C [mm]	D [mm]
SF99-1N44	150	330	6900	5400	1750	3000
SF99-2N44	300	360	6900	5400	2400	3000
SF99-3N44	450	990	6900	5400	3150	3000
SF99-4N44	600	1320	6900	5400	4000	3000
SF99-5N44	750	1650	6900	5400	5000	3000
SF99-6N44	900	1980	6900	5400	6000	3000



REAL
MADE IN
ITALY

DYEING REPORT

SILK



FABRIC FEATURES SF99-1S44

Article	WOVEN FABRIC
Composition	100% SILK
Colour	MEDIUM SHADE
Weight [gr/m]	90
Weight [gr/m2]	60
Width [cm]	150
Lot [Kg]	18
Lot [m]	202
Preparation	RAW FABRIC
Finishing	STENTER
Remarks	=

MACHINE REGULATION SF99-1S44

Pump [rpm]	800
Flow - Hydrovario [%]	max
Jet Pressure [bar]	0,15
Real speed [m/min]	105
Av. lap time [sec]	122
Liquor Ratio [l/Kg]	40
First filling [l]	720
Next Fillings [l]	700

RESULTS SF99-1S44

Water consum. [l]	3940
Water per kg fabric [l/kg]	218
Steam consum. [Kgs]	128
Steam fabric [Kgs/Kg]	7,1
Energy kg fabric [Kw/Kg]	0,66
Real time [min]	180
Program N.	00-070

DYESTUFF

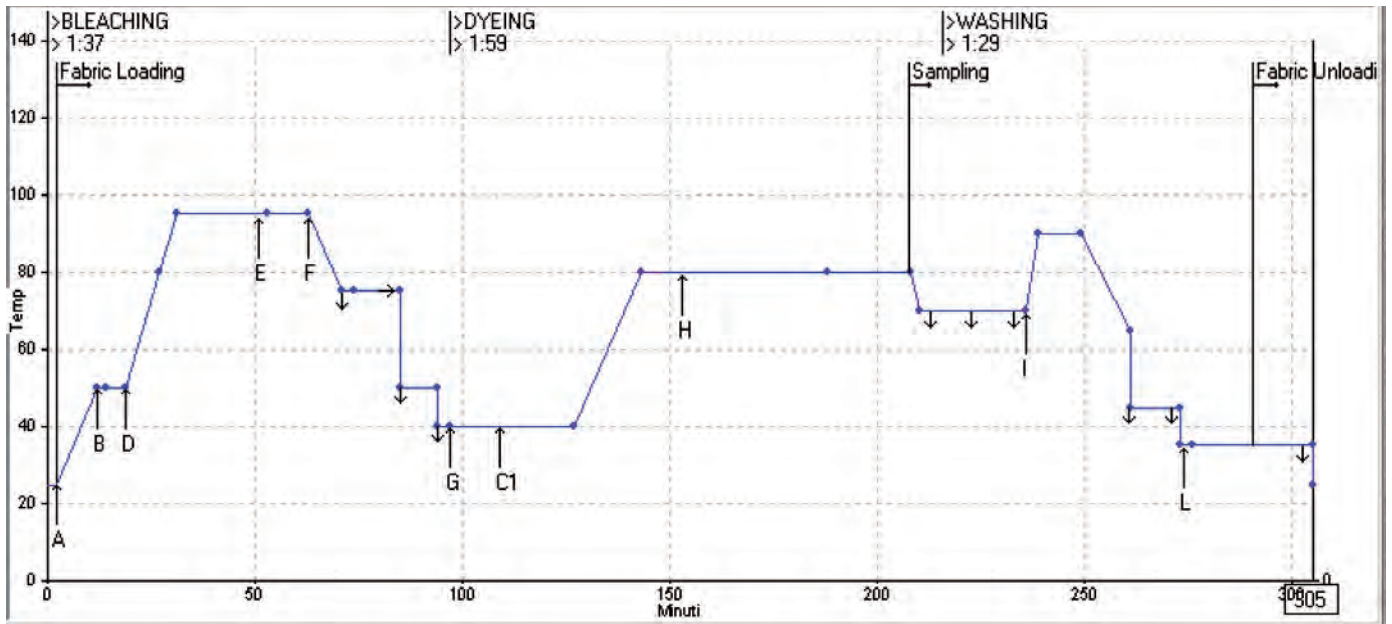
C1 Acid Dyestuff

AUXILIARES

- A Detergent x pre-washing
- B Aux. x dyeing
- D Glauber salt

DYEING REPORT

CO



FABRIC FEATURES SF99-1S44

Article	WOVEN FABRIC
Composition	100% CO
Colour	LIGHT SHADE
Weight [gr/m]	430
Weight [gr/m2]	290
Width [cm]	150
Lot [Kg]	170
Lot [m]	395
Preparation	RDF
Finishing	TUMBLER
Remarks	=

MACHINE REGULATION SF99-1S44

Pump [rpm]	1000
Reg. flow/ Hydrovario	6
Jet pressure [bar]	0,25
Reel speed [m/min]	100
Av. lap time [sec]	120
Liquor Ratio [l/Kg]	13
First filling [l]	2210
Next Fillings [l]	1700

RESULTS SF99-1S44

Water consum. [l]	15900
Water per kg fabric [l/kg]	93,5
Steam consum. [Kgs]	1306
Steam fabric [Kgs/Kg]	7,68
Energy kg fabric [Kw/Kg]	0,238
Real time [min]	305
Program N.	00-210

DYESTUFF

C1 MONOCLORTYAZINE

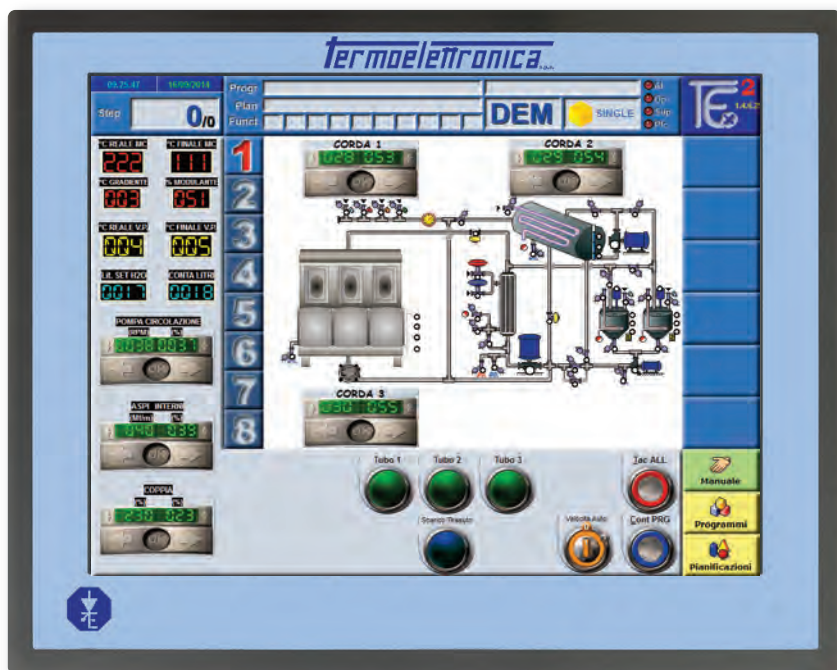
AUXILIARES

A	Wetting Ag. - Detergent - Stabilizer	G	Aux. X dyeing + Salt
B	Caustic Soda	H	Soda ASH
D	Hydrogen Peroxide	I	Detergent x Soaping
E	Peroxide Killer	L	Softening Ag.
F	Acetic Acid		

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

REAL
MADE IN
ITALY

STANDARD AUTOMATION



PCx: PC industrial desarrollado en ambiente Windows para implementar de manera avanzada todas las funciones diagnósticas, de monitorización y de automatización de las máquinas de tintura.

Gracias al monitor con pantalla táctil, diseñado expresamente para el uso industrial, se puede acceder de manera fácil e inmediata a cualquier función.

Si se solicita, es posible el empleo de cualquier micro disponible en el mercado.

PCx: industrial PC developed in Windows room to improve all diagnostic functions, monitoring and automation of dyeing machines.

With Touch-Screen, 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.

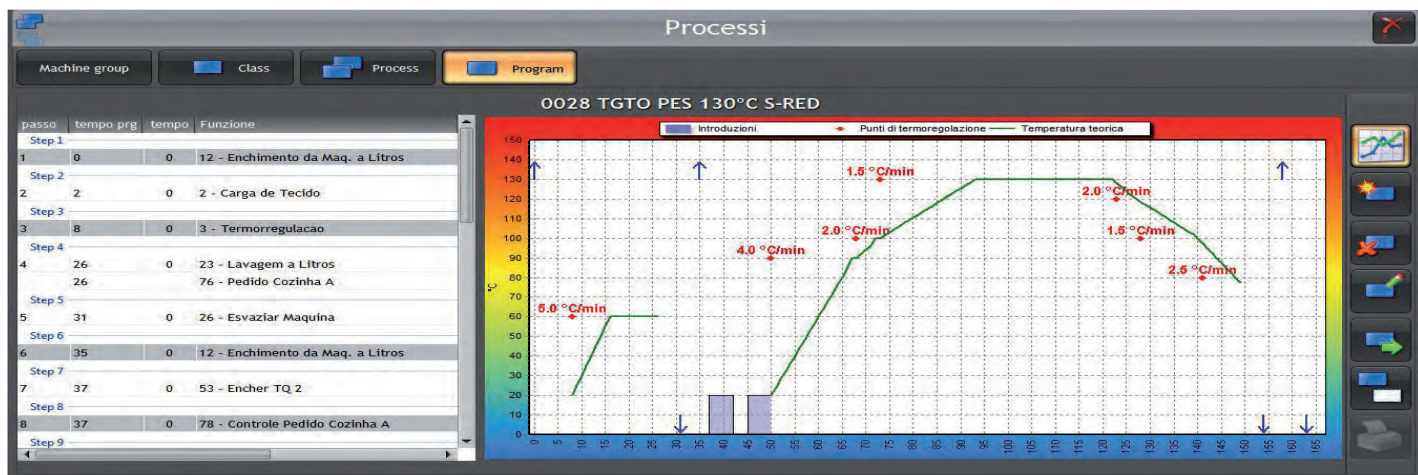
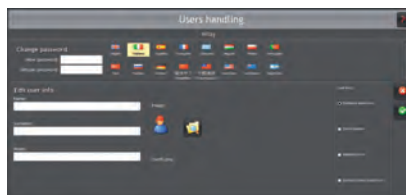


- Gestión del personal y optimización de los recursos humanos
- Gestión de las máquinas
- Gestión de los Departamentos de producción
- Gestión del Almacén

- Personnel Management and optimization of human resources
- Management of machinery
- Software for integrated Production Management
- Management of production departments
- Warehouse management

TEXMANAGER

Software for integrated
Production Management



FEEL THE POWER OF WATER

DYEING & FINISHING MACHINERY



MCS

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