

MCS

DYEING & FINISHING MACHINERY



DYNAMICA SPRINT

HT ROPE DYEING MACHINE



THINK BEFORE YOU PRINT

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 owner-ship.

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.



DYNAMICA SPRINT

HT ROPE DYEING MACHINE

Dynamica Sprint es una máquina para la tintura en cuerda de alta temperatura (máx. 144°C).

Es una máquina de almacenamiento circular, adecuada para tejidos de punto y ortogonales con gramajes variables.

Para artículos de peso ligero es posible trabajar en cuerda doble o múltiple.

El cuerpo de la máquina puede contener de una a seis cubetas, con capacidad de carga variable según el modelo y la dirección elegida.

Considerando una fibra celulósica de punto con un peso de 250 g/lin. m, las capacidades de carga son las indicadas en el cuadro de la pág. 10.

Todas las partes internas de la máquina en contacto con el tejido se construyen empleando acero inoxidable AISI 316/AISI 316 L. certificado.

Dynamica Sprint está completamente diseñado y construido MCS.

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

Dynamica Sprint is a high temperature rope dyeing machine (max 144°C).

It is a circular deposit machine, suitable for both knitted and orthogonal fabrics with variable weights.

For particularly light weight items, it is possible to work in double or multiple rope.

The machine body contains from one to six trough, with variable charge capacity depending on the model and the chosen version.

Considering a knitted cellulosic fiber with a weight of 250 g/lin.m, the charge capacities are those indicated in the table on page 10.

All the internal parts of the machine in contact with the fabric are built using certified stainless steel AISI 316/AISI 316 L.

Dynamica Sprint 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.

STORIA DELLE MACHINE DA TINTURA IN CORDA MCS

1967 ITMA - Paris: MCS expone el primer modelo de Jet baja temperatura

1979 ITMA - Hannover: MCS expone JET-HT e OVERFLOW MO/80 LT

1983 ITMA - Milan: MCS expone SOFTFLOW 82 HT e FLO-JET OF83 HT

1987 ITMA - Paris: MCS expone PANDORA HT

1995 ITMA - Milan: MCS expone SOFTFLOW 100 HT, LONG HORN HT.

1999 ITMA - Paris: MCS expone MULTIFLOW HT, SOFTFLOW 100 SUPERIOR HT

2000: MCS diseña la EUROFLOW LONG

2003 ITMA - Birmingham: MCS expone MULTIFLOW SUPERIOR.

2007 ITMA - Monaco: MCS expone FIRST HT

2011 ITMA - Barcelona: MCS expone DYNAMICA HT

2015 ITMA - Milan: MCS expone DYNAMICA SPRINT HT

2019 ITMA - Barcelona: MCS presenta SOFTFLOW 18 HT, espone DYNAMICA SPRINT HT

2020: MCS diseña EUROFLOW SPORT

2023: ITMA Milan: MCS expone CHRONOFLOW e SOFTFLOW 18 HT

ROPE DYEING MACHINE HISTORY

1967 ITMA - Paris: MCS exhibits: the first low temperature jet model.

1979 ITMA - Hannover: MCS exhibits JET-HT and OVERFLOW MO/80 LT

1983 ITMA - Milan: MCS exhibits SOFTFLOW 82 HT and FLO-JET OF83 HT

1987 ITMA - Paris: MCS exhibits PANDORA HT

1995 ITMA - Milan: MCS exhibits: SOFTFLOW 100 HT, LONG HORN HT.

1999 ITMA - Paris: MCS exhibits: MULTIFLOW HT, SOFTFLOW 100 SUPERIOR HT

2000 : MCS presents the EUROFLOW LONG

2003 ITMA - Birmingham: MCS exhibits: MULTIFLOW SUPERIOR.

2007 ITMA - Monaco: MCS exhibits FIRST HT

2011 ITMA - Barcelona: MCS exhibits DYNAMICA HT

2015 ITMA - Milan: MCS exhibits DYNAMICA SPRINT HT

2019 ITMA - Barcelona: MCS presents SOFTFLOW 18 HT, exhibits DYNAMICA SPRINT HT

2020 : MCS design the EUROFLOW SPORT

2023 ITMA Milan: MCS exhibits CHRONOFLOW and SOFTFLOW 18 HT

DYNAMICA SPRINT

HT ROPE DYEING MACHINE



CARATTERISTICAS

Relación de baño hasta 1.8 + factor de absorción tela
Tanque de preparación de baño **MST** con control de nivel y sistema de gestión
Sistema de drenaje rápido de baño modelo **MQD**
Hydrovario, tobera de sección variable
Sistema de circulación con succión múltiple (Patente MCS)
Regulación totalmente automática con PC industrial
Tanque de adición productos completo con mezclador y sonda neumática de nivel
Introducción del producto rediseñado
Investigación de costura y control de circulación de piezas
Control de nivel continuo
Contador de litros de llenado H2O
Sistema de lavado de paredes de la máquina de carrusel
Filtro principal autolimpiante en la entrega de la bomba

MAIN FEATURES

Liquor ratio until 1.8 + fabric absorption
Vertical tank for liquor preparation **MST** with system for the control / management of level
Drain by main pump, mod. **MQD**
Nozzles at adjustable section, Hydrovario model
Multi pump suction with variable speed motor (MCS Patent)
Micro touch-screen by industrial PC
Side tank for products, with pneumatic level probe and mixer
New system of product introduction
Seam detector/fabric run control
Continuous level control
Water liter counter
Carousel washing system
Self cleaning static filter in main delivery pump



CARATTERISTICAS

- Sistema de recirculación e introducción para la dilución de sal
- Plegador en cada cuba, para un almacenamiento óptimo de la tela
- 2º tanque de adición de producto completo con mezclador
- Posibilidad de teñir doble o multi cuerda
- Panel operador:** se puede utilizar cualquier micro disponible en el mercado. (Optional)
- Medidor de pH:** Medidor de pH compuesto por una sonda de alta temperatura y un instrumento de lectura instalado en el panel. (Optional)
- Medidor de flujo de vapor:** conectado al microprocesador de la máquina para registrar el consumo de vapor del ciclo. (Optional)
- Medidor de consumo eléctrico:** conectado al microprocesador de la máquina para registrar el consumo eléctrico del ciclo. (Optional)
- Aire acondicionado:** aire acondicionado puesto en el panel eléctrico de capacidad de enfriamiento adecuada con fuente de alimentación trifásica. (Optional)
- Twins System:** uso gemelado de varias máquinas (Optional)

MAIN FEATURES

- System** for the reduction/liquor recycling and salt introduction
- Plaiter** for a better circulation of the fabric in each fabric deposit
- 2nd side tank** for products, with pneumatic level probes and mixer
- Possibility to **work in double or multi rope**
- Operation panel:** Upon Customer's request it is always possible to install different brands of controllers (Optional)
- pH-Meter:** composed of high temperature probe and reading instrument installed in the panel (Optional)
- Steam flow meter.** Steam flow meter with system connected to the processor microprocessor for steam cycle (Optional)
- Electric consumption meter:** connected to the machine microprocessor for recording the electrical consumption of the cycle (Optional)
- Conditioner:** Air conditioner with adequate cooling power with 3-phase power supply (Optional)
- Twins System:** Connection machines system (Optional)

OPTIMIZATION OF DYEING LIQUOR CIRCULATION



Gracias al nuevo sistema de aspiración y circulación baño (pendiente de patente), Dynamica Sprint permite operar con relaciones baño 1:8 + factor de absorcion.

Además, con ayuda de una bomba centrífuga con eje vertical multi-aspirante dichas prestaciones también se garantizan con carga real reducida.

Thanks to the realisation of a new system for liquor suction and circulation (patent pending), Dynamica Sprint allows to dye at low liquor ratio, down to 1:8 + fabric absorption.

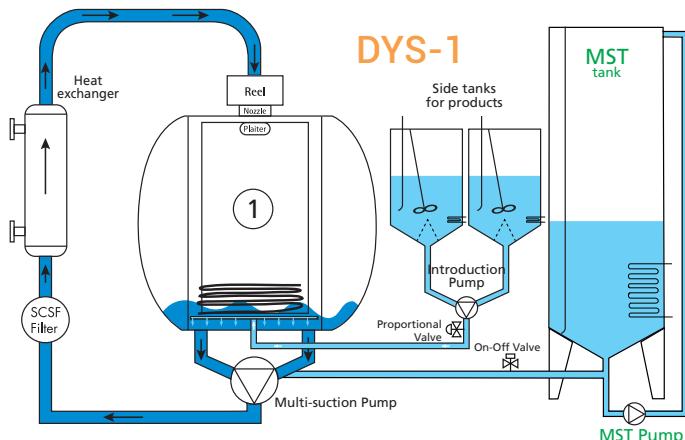
Furthermore, a muti-suction, vertical, centrifugal pump guarantees machine performances also by reduced loads.

NUEVO SISTEMA INTRODUCCIÓN PRODUCTOS

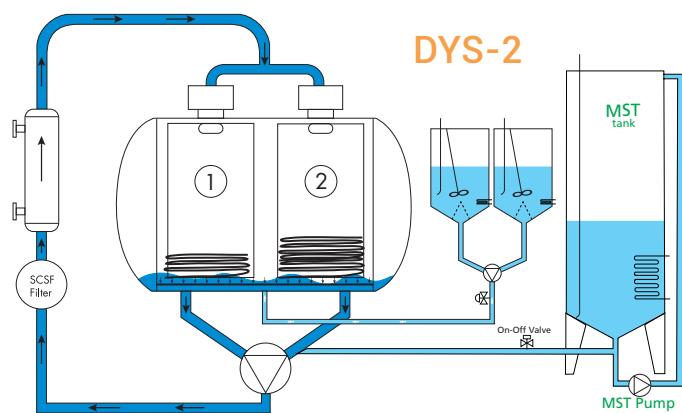
Los procesos son más rápidos y más seguros gracias a un nuevo concepto para el controlador de la entrada del producto (patente MCS) mediante un ordenador industrial con pantalla táctil (PCx-TEx por Termoelettronica)

NEW SYSTEM FOR PRODUCT INLET

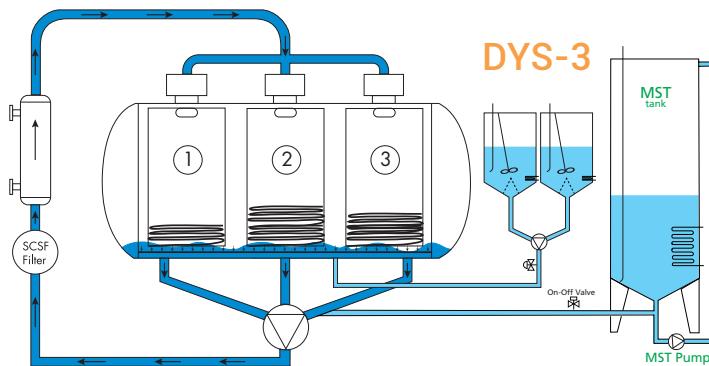
Processes are faster and safer thanks to a new concept for product inlet (MCS patent) controller by industrial touch-screen PC (PCx-TEx by Termoelettronica)



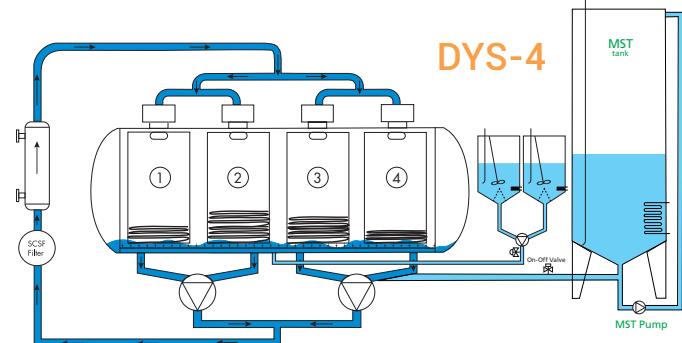
Versión con 1 cuba tejido y 1 bomba multisucción
Version with 1 fabric deposit and 1 multisuction pump



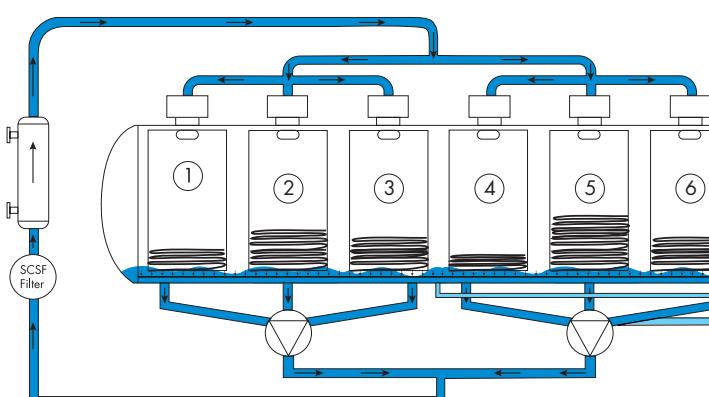
Versión con 2 cubas tejido y 1 bomba multisucción
Version with 2 fabric deposits and 1 multisuction pump



Versión con 3 cubas tejido y 1 bomba multisucción
Version with 3 fabric deposits and 1 multisuction pump



Versión con 4 cubas tejido y 2 bombas multisucción
Version with 4 fabric deposits and 2 multisuction pumps



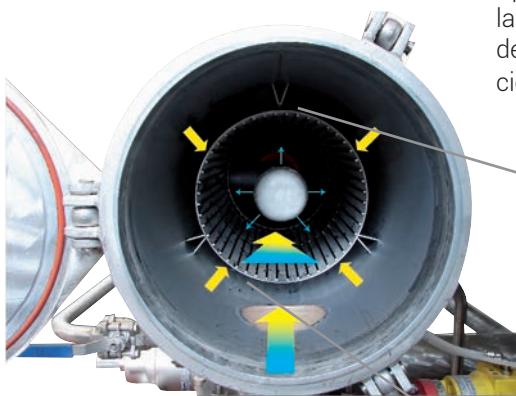
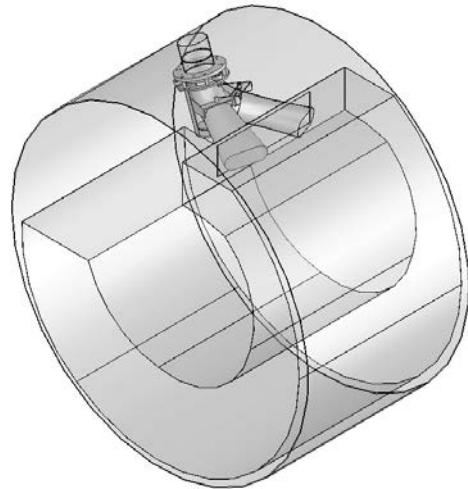
Versión con 6 cubas tejido y 2 bombas multisucción
Version with 6 fabric deposits and 2 multisuction pumps

**LIQUOR RATIO
1,8+FABRIC ABSORPTION**

STANDARD EQUIPMENT

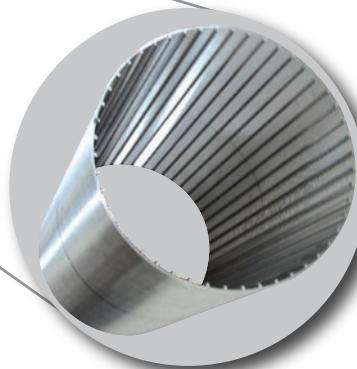
Gracias al nuevo diseño de los tanques de depósito de tejido y sistema de plegado combinado, se aumenta la capacidad real de carga.

The new design of the fabric deposit troughs combined with the plaiting system increases the real capacity of the machine.



Aprovechando la presión generada por la bomba de circulación y el baño presente en la máquina, a cada descarga de baño se efectúa un lavado del filtro SSCF (pendiente de patente), permitiendo la reducción de las operaciones de limpieza y el correcto funcionamiento de la bomba principal (aumento de las prestaciones).

Taking advantage of the pressure generated by the circulation pump and of the liquor inside the machine, by every liquor drain, the SSCF Self-Cleaning-Filter (patent pending) is being washed-off. This fact remarkably reduces the cleaning operations of filters and improves the performance of the circulation pump itself.

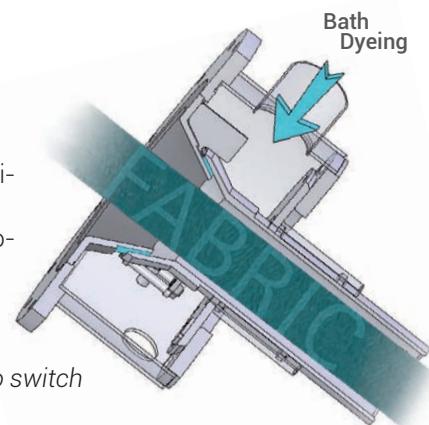


SELF-CLEANING STATIC FILTER ON DELIVERY PUMP

HYDROVARIO VARIABLE NOZZLE

Hydrovario es una tobera de sección circular variable. Permite pasar de una acción típicamente FLOW a una acción JET o intermedia con una sola tobera.

El Hydrovario se mueve a través de un accionamiento eléctrico que permite un posicionamiento seguro y preciso.



The Hydrovario is a nozzle with passage section of the circular bath variable. It allows to switch from a typical FLOW action to a JET or intermediate action with a single nozzle.

The Hydrovario is moved through an electric drive that allows a safe and precise positioning.

STANDARD EQUIPMENT

MST (machine side tank): depósito de preparación baño con sistema de control y gestión del nivel mediante sonda neumática para la reducción de los tiempos muertos en las fases de llenado del baño.

MQD (machine quick drain): descarga rápida mediante bomba de recirculación principal.

Depósito 1 y 2 de adición de productos con mezclador, sonda neumática, serpentina de calentamiento y baño de recirculación de la máquina. Gracias a dicho sistema se reducen posteriormente los tiempos muertos y los tiempos de espera también en presencia de sistemas automáticos de distribución.

MST (machine side tank) is for liquor preparation; liquor is controlled and managed by a pneumatic probe in order to reduce down times by liquor fillings.

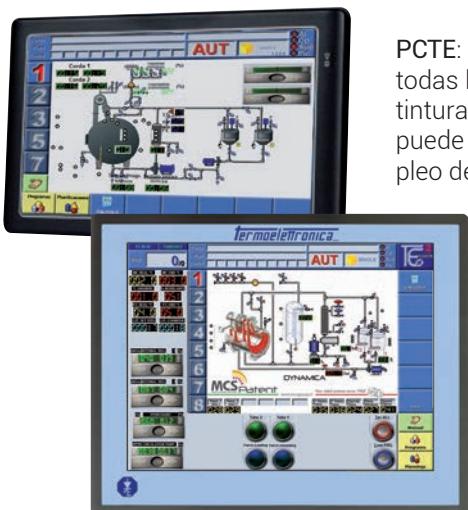
MQD, machine quick drain, by main circulation pump.

Add tank 1 and 2 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.



STANDARD AUTOMATION



PCTE: 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.

PCTE: 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.

MODELS DATA

KNITTED & WOVEN VERSION

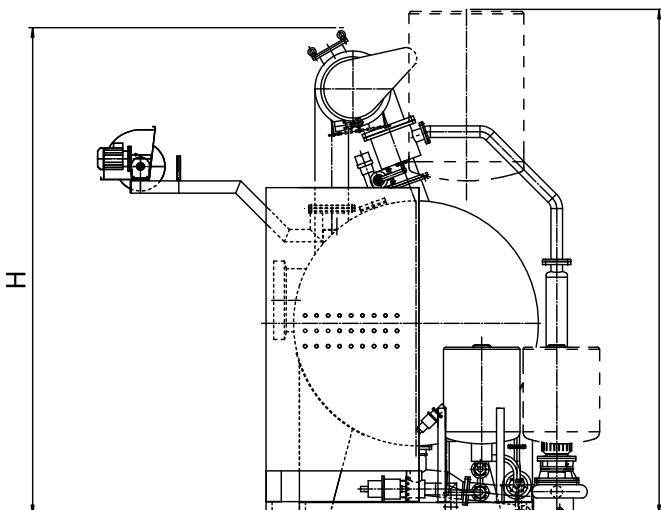
	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1U	180	2800	4000	5300
DYS-2U	360	3700	4000	5300
DYS-3U	540	4900	4000	5300
DYS-4U	720	5900	4000	5300
DYS-6U	1080	8100	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XJ	250	3100	4000	5300
DYS-2XJ	500	4500	4000	5300
DYS-3XJ	750	5700	4000	5300
DYS-4XJ	1000	7400	4000	5300
DYS-6XJ	1500	10500	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XXJ	300	3400	4000	5300
DYS-2XXJ	600	5000	4000	5300
DYS-3XXJ	900	6700	4000	5300
DYS-4XXJ	1200	8300	4000	5300
DYS-6XXJ	1800	12200	4000	5300

KAPPA - SMALL PRODUCTION

	Loading [Kg]	A [mm]	B [mm]	C [mm]	H [mm]
K-25-J	25	2380	2030	3180	3300
K-50-J	50	2380	2030	3180	3300
K-100-J	100	2570	2600	3750	3950



UPHOLSTERY VERSION

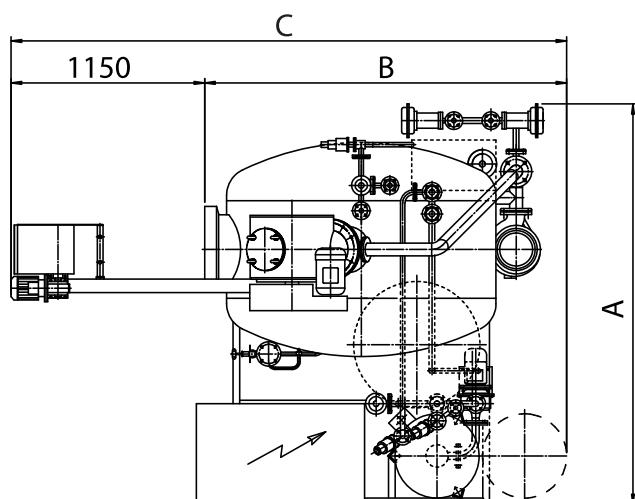
	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1U	180	2800	4000	5300
DYS-2U	360	3700	4000	5300
DYS-3U	540	4900	4000	5300
DYS-4U	720	5900	4000	5300
DYS-6U	1080	8100	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XU	250	3100	4000	5300
DYS-2XU	500	4500	4000	5300
DYS-3XU	750	5700	4000	5300
DYS-4XU	1000	7400	4000	5300
DYS-6XU	1500	10500	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XXU	300	3400	4000	5300
DYS-2XXU	600	5000	4000	5300
DYS-3XXU	900	6700	4000	5300
DYS-4XXU	1200	8300	4000	5300
DYS-6XXU	1800	12200	4000	5300

KAPPA - SMALL PRODUCTION

	Loading [Kg]	A [mm]	B [mm]	C [mm]	H [mm]
K-25-U	25	2380	2030	3180	3300
K-50-U	50	2380	2030	3180	3300
K-100-U	100	2570	2600	3750	3950



SPECIAL TOWEL VERSION

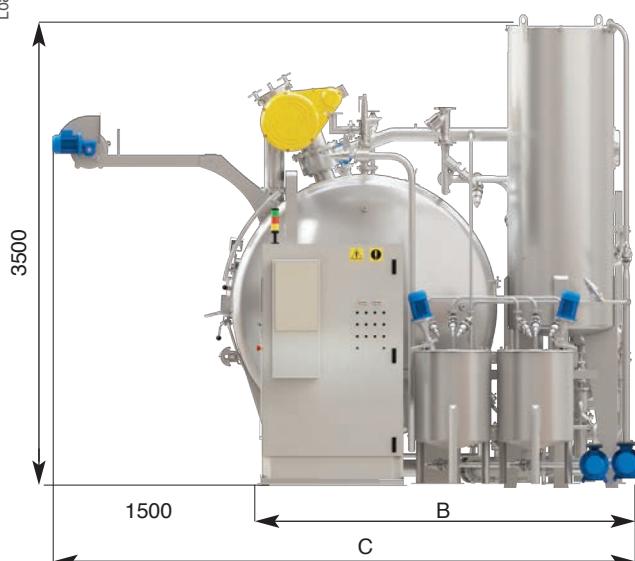
	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XT	250	3300	4000	5300
DYS-2XT	500	4700	4000	5300
DYS-3XT	750	5900	4000	5300
DYS-4XT	1000	7400	4000	5300
DYS-6XT	1500	10500	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XXT	300	3400	4000	5300
DYS-2XXT	600	4900	4000	5300
DYS-3XXT	900	6250	4000	5300
DYS-4XXT	1200	7800	4000	5300
DYS-6XXT	1800	10900	4000	5300

KAPPA - SMALL PRODUCTION

	Loading [Kg]	A [mm]	B [mm]	C [mm]	H [mm]
K25-T	25	2380	2030	3180	3300
K50-T	50	2380	2030	3180	3300
K100-T	100	2570	2600	3750	3950

HEAVY TOWEL VERSION LOAD UP 5 KG/LIN.M.



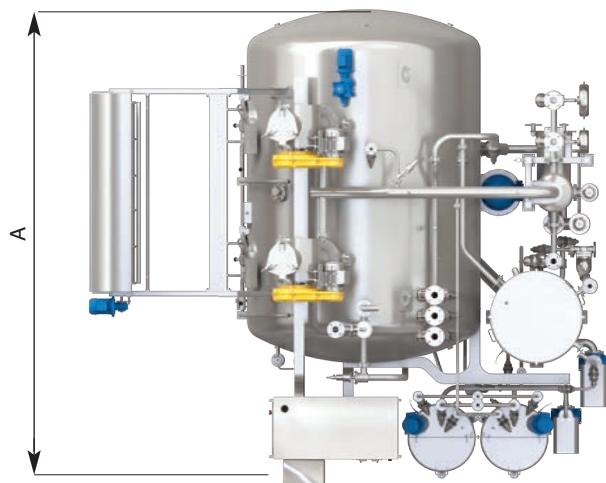
HEAVY TOWEL VERSION

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XTT	250	3300	4000	5300
DYS-2XTT	500	4700	4000	5300
DYS-3XTT	750	5900	4000	5300
DYS-4XTT	1000	7400	4000	5300
DYS-6XTT	1500	10500	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XXTT	300	3400	4000	5300
DYS-2XXTT	600	4900	4000	5300
DYS-3XXTT	900	6250	4000	5300
DYS-4XXTT	1200	7800	4000	5300
DYS-6XXTT	1800	10900	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1XSTT	350	3550	4000	5300
DYS-2XSTT	700	5200	4000	5300
DYS-3XSTT	1050	6700	4000	5300
DYS-4XSTT	1400	8400	4000	5300
DYS-6XSTT	2100	11650	4000	5300

	Loading [Kg]	A [mm]	B [mm]	C [mm]
DYS-1SSTT	400	3750	4000	5300
DYS-2SSTT	800	5600	4000	5300
DYS-3SSTT	1200	7300	4000	5300
DYS-4SSTT	1600	9200	4000	5300
DYS-6SSTT	2400	12850	4000	5300



Loading capacity mentioned in this table may slightly vary depending on the type of article considered. MCS reserve the right to change technical data and specifications without prior notice.

FEEL THE POWER OF WATER

DYEING & FINISHING MACHINERY



MCS
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