

Washer Thermodisinfectore  
**Matachana MAT LD500**

## Maximum efficiency, shortest time

The new generation of MATACHANA washers thermodisinfectors responds to the need to guarantee maximum efficient processes with reduced time to increase the productivity of the facilities.

We have set ourselves the challenge of **Revolutionizing** the market and we are sure we have succeeded.

With the ecology as banner we have achieved the highest perfection in the process operation. By optimizing and redesigning circuits, flows, energy and water consumption have also been reduced. Cycle time has also been minimized.

The reduction of the amount of water required has a direct effect on a lower consumption of chemicals, and on the reduction of waste released to the environment.

The sum of the above factors allows us to obtain a much lower cost per cycle while safeguarding the environment.



Standard installation



## Quality assurance

Our extensive implementation in the international market as well as the user's proactive approach with our vast commercial network, allows us to know first-hand trends and needs for improvement. Consequently, after more than 50 years of history, we remain at the forefront of technology.

MATACHANA new generation of washers thermodisinfectors are astonishing, not only due to their high processing capacity and small dimensions, but also because of their efficient energy and water consumption. They have managed to reconcile two usually opposing factors:

- preservation of natural resources
- cost saving



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## **MAT LD500:** You will be surprised!



NULLGAP installation

### **HIGH LOAD CAPACITY:**

Up to 12 baskets of 1/1 DIN in 6 levels

### **HIGH PRODUCTIVITY:**

Standard program duration 45 minutes (validated according to EN ISO 15883)

### **LOW WATER CONSUMPTION:**

12-15 liters of water per phase ~ reduced chemicals consumption

### **ACCURACY:**

Dosing monitoring with flowmeters

### **EASY OPERATION:**

EasyRUN user interface and 7" touch screen

### **WORKPLACE ERGONOMICS:**

750 mm load height

### **LOW SOUND LEVEL:**

< 60 dBA

### **ULTRA-COMPACT SIZE:**

Only 660 x 790 mm surface

### **MAINTENANCE ACCESS ENTIRELY FRONTAL:**

Installation under NULLGAP format: Equivalent to 3 MAT LD500 washers in 2 meters wide

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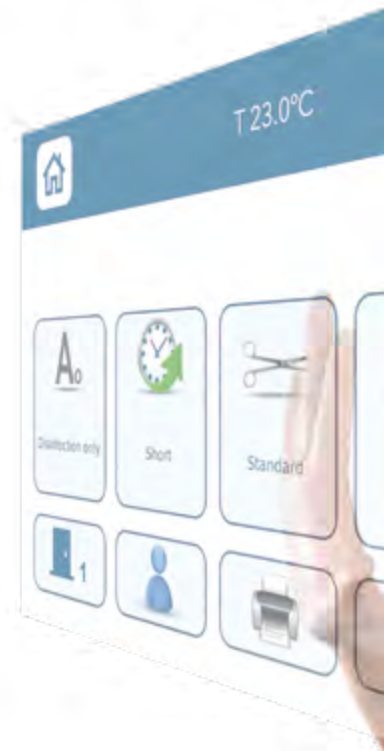


All this, and  
a whole lot more!

## MAT LD500

### Equipment included as standard

- Built-in main switch
- Automatic washing pressure control
- Double LED lighting inside the chamber
- Fully integrated touch screen on the front panel
- Chamber and washing circuits made of AISI 316L stainless steel quality
- Easily removable wash arms for cleaning
- Automatic sliding doors with vertical shift towards the floor
- Double glass doors with High Shock Thermic treatment
- Two chemical dosing pumps with integrated level sensors and independent flowmeters
- Storage compartment containing four 5-liter cans of chemicals
- More than 40 different programs in memory
- Two water intakes: decalcified and demineralized
- High efficiency drying system
- Air HEPA filter H14
- Direct monitoring via web browser
- Remote service connectivity





## MATACHANA EasyRUN

User friendly interface and own identity sign.

The new generation of MAT LD washers shares the user interface with our steam and low temperature sterilizers. The unified control simplifies user interaction with all our devices.

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## Connectivity

It has already become actuality thanks to its numerous benefits, not only for the clinical staff but also for the integral management of the center itself.

Maximum compatibility with monitoring, traceability and management software installed in hospitals.

The new MAT LD500 has its own connectivity that allows you to communicate directly to the machine through any web browser. This access allows the visualization of real-time process information, cycle logging, alarms, configuration, etc., as well as maintenance and tele-assistance functions.



## MATACHANA EasyVIEW®

Our MATACHANA EasyVIEW® monitoring software enables complete control, registration and documentation of the washing and sterilization processes.





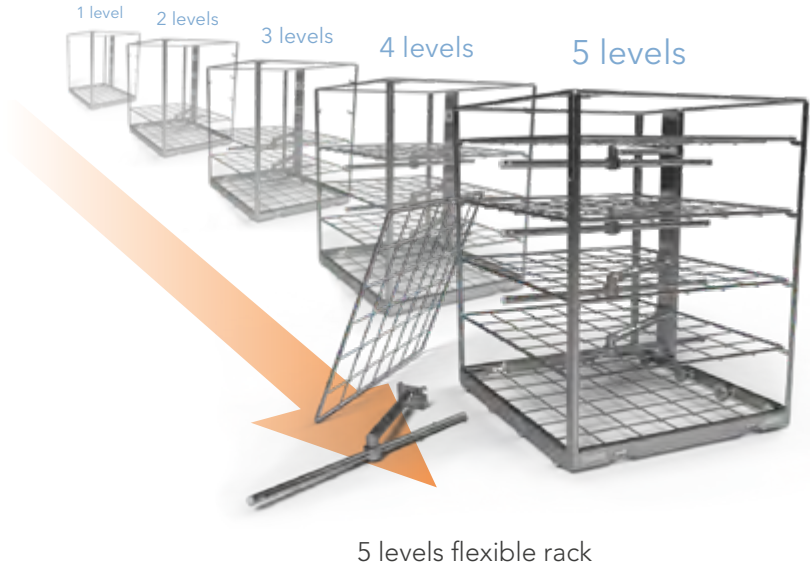
## MAT LD500 options

- Thermal printer
- 3<sup>rd</sup> and 4<sup>th</sup> chemical dosing pumps with integrated level sensors and independent flowmeters
- Integrated touch screen in unloading area
- Audible signal for alarms and end of cycle
- Conductivity sensor to ensure excellent rinsing
- Differential pressure monitoring on HEPA drying filter
- Load identification through RFID wireless technology
- Automatic cycle start in equipment with load identification
- Manual swing door
- Washing arms rotation monitoring
- Drain pump
- Drain cooling system
- Flowmeters for water intakes, allows to adjust the consumption to the minimum required for each process
- NetCom connection for external traceability systems
- Additional water intake
- Valve for exhaust systems with forced ventilation
- Blucondenser. Steam condenser with integrated energy recovery system
- High Speed module



# MAT LD500 complementary elements

Equipped with a wide variety of complementary elements, the MAT LD500 washer offers solutions for all types of devices and facilities, including racks for instruments, microsurgery, anesthesia or laboratory equipment.





Da Vinci rack



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## MAT LD500 loading complementary elements



Manual transport trolley



Transport trolley with automatic lifting mechanism



Automatic loading/unloading board

# AL10 robotic loading/unloading system

## LOGISTICS AUTOMATION

Robotic loading/unloading of the racks to the washer thermodisinfectors simplifying the logistics.

## SMALL AREA

This solution, without fixed rails or structures, optimizes the spaces in the RUMED. The RFID load identification system transmits to the robot which washer is ready for the next cycle.

## ERGONOMIC

In order to improve the work environment, this solution automatically compensates for possible differences in height between work tables and devices.

## PRODUCTIVITY

It carries out the loading and unloading of the racks in a totally automatic way, allowing the staff to execute other tasks.

## SMART PRIORITY

The automated AL10 system detects the washer thermodisinfectore free to be used and establish priority between normal and urgent loads.

## SAFE TRANSPORT

The scanner and the 3D camera allow a safe movement of the robot through the RUMED, avoiding collisions with users and furniture.

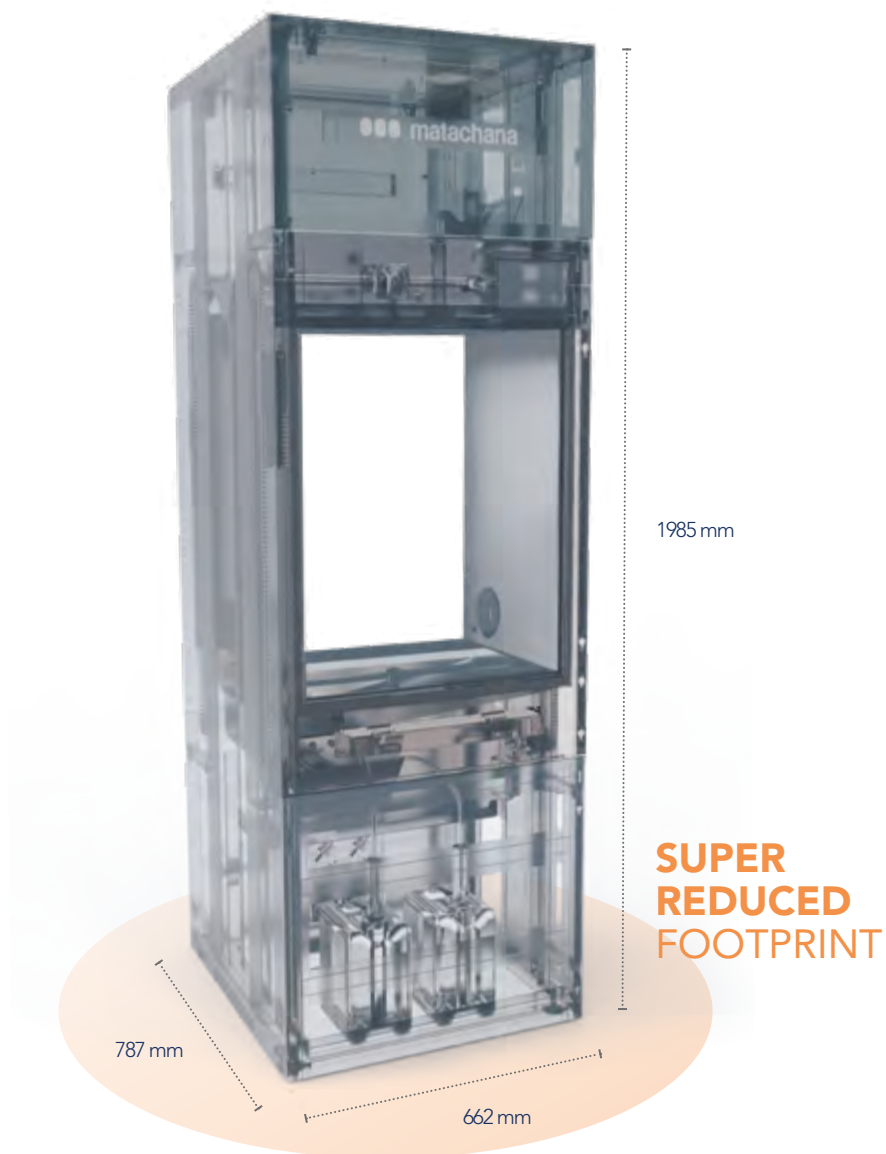
## PARKING

Depending on the workflows, the robotic system picks up the empty racks from the pass-through chassis and returns them to the washing area.

## EFFECTIVENESS

The AL10 robotic system has the capacity to manage from 1 to 8 devices in line.





### Technical specifications MAT LD500

#### Overall dimensions (mm):

Width	662
Height	1985
Depth	787

#### Dimensions of the chamber (mm):

Width	550
Height	740
Depth	630

Usable volume of the chamber (liters) 239

Total volume of the chamber (liters) 256

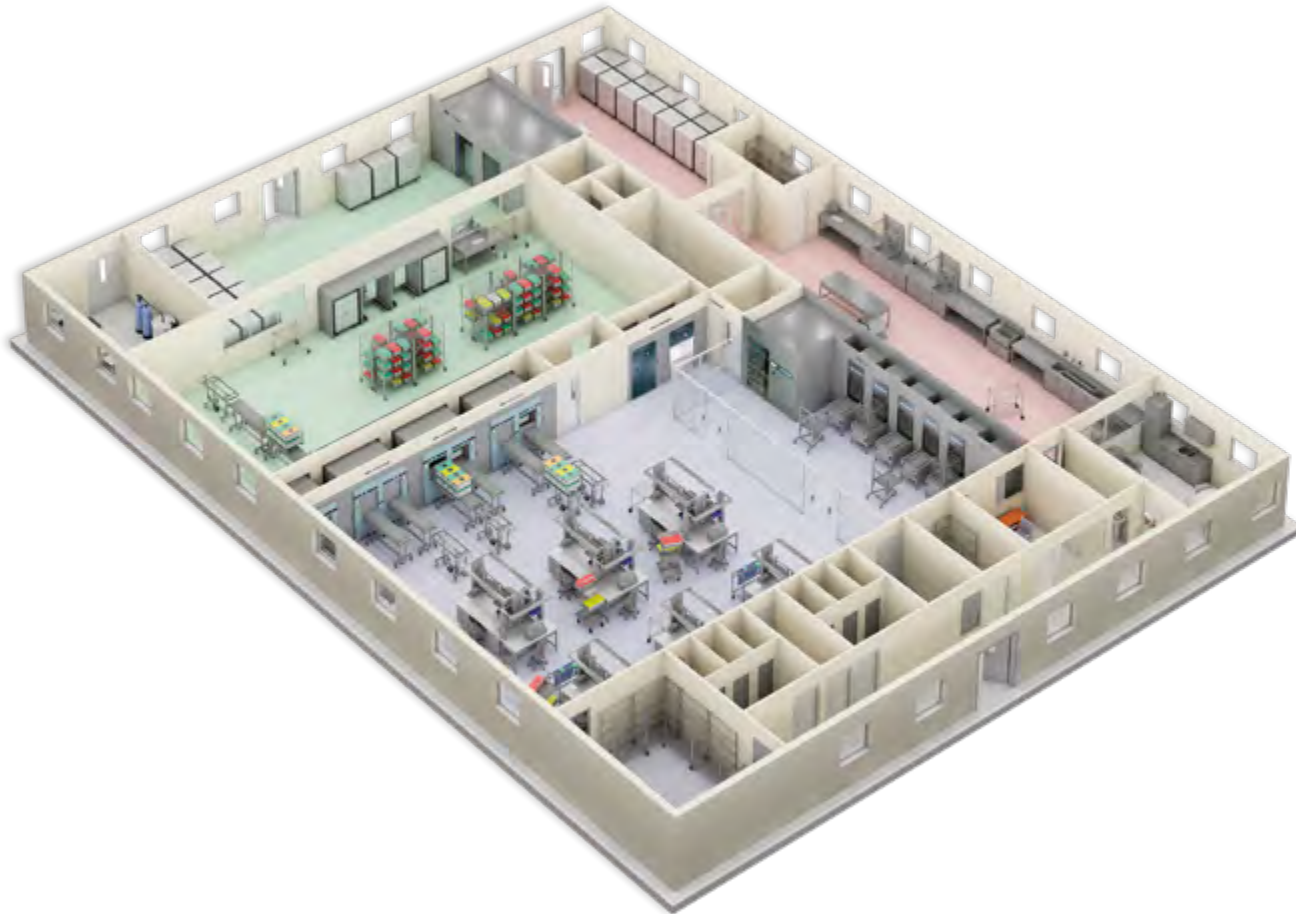
**Capacity** 12 baskets DIN  
4 containers 600 x 300 x 150 mm, including lid

**Sound level** < 60 dBA

**Power** 10 / 13 kWh

**Power supply** 3~N x 200-400V 50/60Hz

# MATACHANA integral solutions for sterile processing departments



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Project briefing	Design	Installation	Training	Technical support
<p>Our sales advisors collect all the information about your business requirements. No matter the size of your facility or area of activity, from this initial phase we consider all variables of your professional activity for the project definition.</p>	<p>The planners from our Competence Center specialized by sector of activity, are liable for planning and designing complete installations taking into account your productivity needs and building requirements.</p>	<p>Our Technical Assistance Service performs the equipment installation and commissioning, ensuring the installation &amp; operation qualifications, performance of devices.</p>	<p>For optimal performance of the installation, our technical team also offers customized training and consulting. We offer the support from our clinical specialists, from the standpoint of the users.</p> <p><b>MIIEC</b> <small>Matachana International Education Center</small></p>	<p>Finally, through our maintenance programs our Technical Assistance Service is fully responsible for the proper operation of the installation. Its team is highly qualified to give a rapid and effective response to any incident, directly or through the network of distributors and dealers.</p>



## Innovation is the way forward

Since the company's foundation more than 50 years ago, our mission has been to provide the best service, bringing our knowledge and field experience to our customers to facilitate their daily work, allowing them to be efficient in the production whereas keeping rigorously the quality.

MATACHANA has a worldwide presence, with offices based in Spain, France, Germany, Italy, United States, Argentina and Malaysia, or through its distributors in over 110 countries.

In MATACHANA we are aware that Training and Service contribute decisively to achieve customer satisfaction. For this reason, we have always invested in the development of these two areas of activity, which enables a direct contact with customers and help us to develop together a continuous improvement process.

### Technical Engineering Support

An assistance provided by engineers, highly skilled expert technicians and support staff, all committed to ensure the proper equipment operation and condition.

### MIEC, training center

As we feel seriously committed and liable for achieving the optimum operation from the MATACHANA equipment, we invest in the training of future users, proposing a service of educational courses to all our customers on a regular basis and in the 5 continents.

### Environmentally friendly

The devices are designed and manufactured using the latest technologies on the market to achieve the best results in terms of energy savings and reduction in water consumption. Our Production Center located in Castelldefels (Barcelona) complies with the ISO 14001 Environmental Management System and ISO 50001 Energy Management.

### Quality

The MATACHANA devices are developed, manufactured and tested within a strict quality control according to the international Standards ISO 9001 and EN ISO 13485 for the quality management of medical devices.

## ●●● matachana

#### Matachana Headquarters

Almogàvers, 174  
08018 Barcelona · Spain  
Tel. (+34) 93 4868700  
www.matachana.com

#### Matachana France

Europarc · 5 allée des Saules  
94043 Créteil Cedex · France  
Tel. (+33) 1 41941780  
www.matachana.fr

#### Matachana Germany

An der Trave 14  
23923 Selmsdorf · Germany  
Tel. (+49) 451 280720  
www.matachana.de

#### Metalarredinox - Matachana Group

Via Berlino, 6 loc. Zingonia  
24040 Verdellino (BG) · Italy  
Tel. (+39) 035 883122  
www.metalarredinox.eu

#### Matachana USA

300 North Pottstown Pike,  
Suite 110  
Exton, PA, 19341, USA  
Tel. (+1) 484 8732763  
www.matachanausa.com

#### Matachana Argentina

Lincol 2572 · Villa Maipu,  
(B1650KED) San Martín  
Buenos Aires · Argentina  
Tel. (+54) 11 48390880  
www.matachana.com

#### Matachana Asia Pacific

7-1, Tower 3, Avenue 3, The Horizon,  
Bangsar South, No. 8 Jalan Kerinchi  
59200, Kuala Lumpur, Malaysia  
Tel. (+60) 3 22423250  
www.matachana.com