Sterilization Systems

- Quality
- Reliability
- Safety
- Pre and Post-Sales Services
- Low Operating Costs
Cisa S.p.A has been producing and selling sterilization systems for over 60 years for both hospitals and industrial sector, covering all sterilization needs.

Cisa is part of an Industrial Group, headed by the entrepreneur Fabio Perini, which manufactures industrial machinery and integrated production systems with factories in 4 continents and its headquarters in Lucca (Italy).

The Company offers capillary distribution and technical assistance both in Italy and overseas that allows it to guarantee constant presence and a complete service in all the countries in which it operates.

Coordination of distributors and technical service centres are handled through the CISA sales and customer care offices located in Amman (Jordan) for Middle East and Central Asia, Joinville (Brasil) for Brasil, Miami (Usa) for Latin America, Rabat (Morocco) for Sub-Saharan Africa, Singapore for Asia, New Delhi for India and the headquarters in Pomezia (Rome) for the rest of the world.

The entire production is realized in the plants of CisaBrasile in Joinville (Brasil) for the South American market and Cisa in Pomezia (Rome) for the rest of the world.
Cisa offers a complete, up-to-date service, designed and planned for a sector that is in continuous evolution like that of machines, systems and technology for scrubbing, disinfecting and sterilizing.

Close and continuous collaboration with university research laboratories enables the company to incorporate the latest and most advanced theories on germ elimination in its machinery and equipment.

Thanks to the organization of its technical department, with operating units for research & development and engineering, Cisa is able to develop new products, test them in its own laboratory and fine-tune their operation before proposing them to the market.

Its continuous investments in research and development have enabled Cisa to achieve success through innovative solutions in design, construction, installation of its products and process control technologies, for unrivaled quality and reliability.
Cisa operates in a very important sector that is continuously developing; for this reason it has concentrated on a line of products that include: machinery for scrubbing and disinfecting, machinery for disinfecting, machinery for sterilization and software systems for management and control.

All the products in the different lines are “made in Cisa” from design to manufacture.

The operating technology used: steam, plasma, peracetic acid, superheated water, formaldehyde, ethylene oxide, hot air, and air-steam mixtures enable to cover all the market needs.

All the equipment can be built to function with steam coming directly from the mains supply line or electrically by means of heating elements, or with steam produced by a heat exchanger supplied with industrial steam or a combination.

Cisa’s leadership position on the market enables it to produce enough volume to justify mass production of every model. The repetition of the operations of assembly and the industrialization of the production process also ensure a favorable cost/benefit ratio.

Range of Production

- **SOFTWARE**
  - Hospital
  - Laundry

- **DISINFECTION**
  - Hospital
  - Laboratory
  - Pharmaceutical Industry
  - Stabularium Animal Breeding
  - Laboratory
  - Milk Preparation

- **STERILIZATION**
  - Hospital
  - Laboratory
  - Pharmaceutical Industry
  - Stabularium Animal Breeding
  - Laboratory
  - Milk Preparation

- **WASHING DISINFECTION**
  - Hospital
  - Laboratory
  - Pharmaceutical Industry
  - Stabularium Animal Breeding
  - Laboratory
  - Milk Preparation

- **ENDOSCOPY**
  - Hospital

- **WASTE TREATMENT**
  - Hospital
  - Laboratory
Perfect cleansing combined with a high level of disinfection ensure the effectiveness of a process of sterilization in order to eliminate the risks deriving from the use of medical devices on the human body. Every machine produced by Cisa is designed with the same philosophy: ease of use and maintenance, safety and reliability. To ensure a constant level of quality the company has developed a quality control system based on all the experience acquired in its many years of activity in Italy and abroad.

Cisa is certified in accordance to UNI EN ISO 9001:2000 and UNI EN ISO 13485:2004 quality system as well as the “CE” certificate of conformity based on the Directive for Medical Devices nº 93/42/CEE issued by TUV Sud. Cisa also holds the “CE” certificate for the construction of pressure vessels according to Directive nº 97/23/CEE with the PED procedure, also issued by TUV Italy. All Cisa products are constructed and certifiable in conformity with the prescriptions of the European standards in effect. The equipment designed for the pharmaceutical sector complies with the requisites of the applicable European Directives.
The high technological content of Cisa products is the direct result of research that focuses on the machine construction features, through the selection of materials, components and technical solutions that guarantee safe operation in every stage of the cycle and excellent product life.

All the parts used for the construction of the equipment are readily available all over the world. Cisa uses only components produced by multinational companies with a worldwide network of distribution and technical service.

The operating cycles and production processes are designed in such a way as to make the mechanical parts even more resistant and long-lasting, and to guarantee absolute reliability in any situation.

The use of special steel with titanium and extra thickness is one of the secrets of the Cisa design to obtain a level of resistance that is redundant with respect to normal use.
Cisa machines are designed in accordance with the most sophisticated methods of safety control, taking into account, risk analysis, the type of use, the class of equipment (Ila) and thus of the necessary operator protection, the product and the environment.

For every part, according to the principle of redundancy and thus of safety, an extra back-up part is always available and can intervene automatically in case of malfunction of the first.

Every unit is fully inspected by programmable logic systems that serve to manage the cycles, control the parameters and verify the safety of the process.

Two programmable logic controls dialogue to ensure the maximum safety of the process. While one PLC controls machine operations, the second performs a constant control function with inspection and registration.

This makes it possible to confirm the regular performance of the processing cycle, freeing the operator of the risk of individual evaluation.

All equipment is provided with a system of autodiagnostics and routine maintenance monitoring; they are designed for remote maintenance, remote supervision and a management system for the sterilized materials.

In addition, the devices have been tested for electromagnetic compatibility and are equipped with network filters. In the design of the mechanical parts, special expedients have been developed to ensure maximum hygiene, facilitate the cleaning of surfaces, pipes made easily drainable and prevent the formation of deposits.

The choice of commercial components and their arrangement inside the machinery have also been planned with the same criteria.
All Cisa machines are designed with particular attention to energy savings, all the insulating materials are therefore of the finest quality and of extra thickness.

Specific technical solutions make it possible to reduce water and power consumption during the performance of the processing cycles.

Every unit that is on but not actively engaged in a processing cycle is automatically switched over to stand-by so as to reduce consumption considerably.

The machines can be automated to optimize work shifts. Switching on, warm-up, test runs and switching off are all operations that can be performed automatically.

Even the operations of loading and unloading equipment can be automated in order to reduce the inactive time of the machines.
The problem of contamination in hospitals is important and complex. Cisa offers complete design of Central Sterilization Supply Department with workflow, equipment and accessories using its own “system” with guidelines developed to reduce the microbe load progressively and lower the risk of contamination up to final sterilization.

Cisa sterilization centers are custom designed accounting for the dimensions and configuration of the hospital: number of beds, type of specializations, number of operating rooms, number of operations per day, number of intensive care beds and selection of the quantities of materials in stock and consumables.

Cisa supplies furnitures and accessories of the equipments to complete the CSSD following the “Cisa system” continuously in evolution and according the collaboration with the sterilization world.

The “Cisa System” is versatile and able to be in contact with many types of packing and management of the sterile supplies. Through the automation can increase the productivity and the efficiency of the CSSD. The materials are shared in two main furnishing lines with different qualities; in fact is possible to choose the “Stainless steel Line” and the “Corian Line”.
Automatic washing and disinfection for trolleys and containers

Manual washing

Automatic washing by ultrasonic waves

Automatic washing and disinfections load side wide view

Automatic washing and disinfections of surgical instruments, material for anaesthesia, microsurgery, containers and operating shoes

Pass through window for material
CSSD realization in "Stainless Steel Line"

Automatic washing and disinfection - unload side - wide view

Packing with bags

Packing with containers

Textiles store after washing phase

Packing zone for textile with medical paper, bags and containers

Sterilization - load side - wide view
CSSD realization in “Stainless Steel Line”

- Pass-through trolleys
- Sterilization - unload side wide view
- Sterile store wide view
- Stocking of sterile material
- Pass through cupboard for sterile material redelivery
- Sterile material transport trolleys

CISA

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CSSD realization in "Corian Line"

Material transfer

Protection removing

Washing Area view

Working tables "Corian line"

Manual washing

Manual washing with accessories
CSSD realization in “Corian Line”

Washing machines view

Preparation of the instruments

Loading

Adjustable height packing tables “Corian line”

Lifting gear in progress

Loading of the containers
CSSD realization in “Corian Line”

**Containers transfer**

**Autoclaves view from the loading side**

**Loading**

**Autoclaves view from the unloading side**

**Automatic opening of the door**

**Automatic unloading of the material**
Cisa has an extensive network for sales and after-sales service, in the countries in which operates and offer a number of value-added services to satisfy the expectations of its clients, with an unrivaled level of quality. These services are constantly improved and optimized through customer feedback.

A team of highly specialized experts of proven experience operate day by day with professional skill and fast intervention to maintain equipment in perfect working conditions in conformity with the requirements in effect set by the European Union.

The attendance post-sale, the validation of equipment and the correspondence to the norms of existing systems are the main CISA services.

The computer science innovation of the organization, the constant training for the staff, the quality of the warehouses for the replacement parts and their easy availability on the market are the base in order to guarantee one immediate answer and to reduce lessened the inefficiency.
Autoclave Series 200

<table>
<thead>
<tr>
<th>Model</th>
<th>Chamber Dimension (øxP mm)</th>
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- 1 Door

**Version**

H - Hospital

Autoclave Series 280

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- 1 - 2 Doors

**Version**

H - Hospital

Autoclave Series 3000 so

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- 1 - 2 Doors

**Version**

H - Hospital

HF - Formaldehyde

LS - Laboratory Stabularium

LHP - High Pathogen Material
Autoclave Series 400

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* 1-2 Doors

Version
- Hospital
- Laboratory Stabularium
- High Pathogen Material

Autoclave Series 3600

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* 1 - 2 Doors

Version
- Hospital
- Formaldehyde
- Laboratory Stabularium
- High Pathogen Material

Autoclave Series 3000 sv

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* 1 - 2 Doors

Version
- Hospital Basic
### Autoclave Series 420

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- **1 - 2 Doors**

**Version**

H - Hospital  
HF - Formaldehyde  
ETO - Ethylene Oxide  
LS - Laboratory Stabularium  
LHP - High Pathogen Material

### Autoclave Series 640sv

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- **1 - 2 Doors**

**Version**

H - Hospital  
HF - Formaldehyde  
ETO - Ethylene Oxide  
LS - Laboratory Stabularium  
LHP - High Pathogen Material
Autoclave Series 640sv

<table>
<thead>
<tr>
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* 1 - 2 Doors

**Version**

HB - Hospital Basic

Autoclave Series 640so

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* 1 - 2 Doors

**Version**

H - Hospital
HF - Formaldehyde
ETO - Ethylene Oxide
LS - Laboratory Stabularium
LHP - High Pathogen Material

Autoclave Series 1000

<table>
<thead>
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</table>

* 1 - 2 Doors

**Version**

H - Hospital
ETO - Ethylene Oxide
LS - Laboratory Stabularium
LHP - High Pathogen Material
D - Disinfection
Autoclave Series 1400

<table>
<thead>
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</table>

- 1 - 2 Doors

**Version**

H - Hospital
ETO - Ethylene Oxide
LS - Laboratory Stabularium
LHP - High Pathogen Material
D - Disinfection

Autoclave Series 1350

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- 1 - 2 Doors
- Special execution under request

**Version**

H - Hospital
ETO - Ethylene Oxide
LS - Laboratory Stabularium
LHP - High Pathogen Material
D - Disinfection

Autoclave Series 2000

<table>
<thead>
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- 1 - 2 Doors
- Special execution under request

**Version**

H - Hospital
ETO - Ethylene Oxide
LS - Laboratory Stabularium
LHP - High Pathogen Material
D - Disinfection
Autoclave Series V

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Version
H - Hospital
LS - Laboratory Stabularium

Autoclave Series SPS - Sterilization Plasma System

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• 1 - 2 Doors

Version
H - Hospital
LS - Laboratory Stabularium

Series ERS - Endoscope Reprocessing System

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Version
H - Hospital
E - Endoscopy
### Washing-Disinfection Machine Series M

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</tbody>
</table>

- 1-2 Doors

**Version**
- H - Hospital
- LS - Laboratory Stabularium

### Washing-Disinfection Machine Series K

<table>
<thead>
<tr>
<th>Model</th>
<th>Chamber Dimension (WxHxD mm)</th>
<th>Chamber Volume</th>
<th>External Dimension (WxHxD mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>630x680x640</td>
<td>275</td>
<td>1100x2000x811</td>
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<tr>
<td>155</td>
<td>630x680x840</td>
<td>360</td>
<td>1100x2000x1011</td>
</tr>
</tbody>
</table>

- 1-2 Doors

**Version**
- H - Hospital
- LS - Laboratory Stabularium

### Washing-Disinfection Machine Series W

<table>
<thead>
<tr>
<th>Model</th>
<th>Chamber Dimension (WxHxD mm)</th>
<th>External Dimension (WxHxD mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT</td>
<td>900x1450x1600</td>
<td>2300x2000x1850</td>
</tr>
<tr>
<td>WCO</td>
<td>900x1450x1600</td>
<td>2300x2000x1850</td>
</tr>
<tr>
<td>WB</td>
<td>1050x1800x2500</td>
<td>2600x2500x2750</td>
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<tr>
<td>WOT</td>
<td>900x1450x2500</td>
<td>2300x2000x2750</td>
</tr>
<tr>
<td>WBB</td>
<td>1050x1800x2500</td>
<td>2450x2350x2750</td>
</tr>
</tbody>
</table>

- 1-2 Doors

**Version**
- H - Hospital
- LS - Laboratory Stabularium
The hazard of disposing the special hospital wastes has ever been attracting increased attention. For this reason, CISA has carried out a programme of research and development ending in the realization of a "unique plant" that realize the inactivation of the wastes and the reduction of the wastes volumes through the shredding and compaction. Furthermore, the automation level of this system reduces the handling of the wastes to the minimum, therefore reducing the risks related to it.

The system performs a process of sterilization of the wastes with the power of the steam, the earliest, safest and cheapest sterilization technology; this process, thanks to innovative solutions in the machine plants and a new-concept software, is able guarantee that the process is carried out in complete safety for the operators, the absolute annihilation of the microbial charges, the repeatability of the process and, most important, avoiding any kind of environmental pollution.

This system is available in several versions depending from the production capacity and the needs of the institute: the range changes from 70lt./h up to 5000lt./h and more.
The NCS-WEB supervision system makes it possible to control all the CISA equipment installed in hospitals or medical facilities and makes it possible to centralize information by means of a network.

The NCS-WEB supervision system provides the following functions: display of the status of the devices with indication of parameters of the cycle in progress, archiving of cycle data, evaluation of cycles with parametric results, cycle search, printing of certificates with the main data of cycle and diagram, display of the temperature and pressure curves of the cycle and comparison with theoretical parameters, numerical display of main parameters and cycle data, graphic display of the cycle in real time, display of information sheets on the autoclaves in real time, printing of labels, management of archiving time, configuration of network connections, configuration of devices connected with identification data and management of user profiles for different networks.

The RMS WEB maintenance system permits remote control of the devices and makes it possible to check their working conditions and assist the repair technician or modify the management software in real time.
Itineris is a data processing system that manages all the activities in the Central of sterilization. With this system the central of sterilization obtains a high standardization level, quality, safety, productivity thanks to the operating introduction of methodologies quite defined and to be support and control of the activity aside the Itineris system.

- **Traceability of the sterilized material** - relevant informations to date/now and the operator that carried out every individual activity besides the information on the result of the sterilization cycle (plasma and steam sterilizers to interfacing computer systems).
- **Supporting to ISO certification** - The Itineris system represents a concrete support to the operating protocols necessary to achieve a ISO certification.
- **Supporting to the administration management** - The Itineris system agrees to optimize the administration management, beyond that productive, in a central of sterilization.
- **Safety and Reliability** - The operating presence of standard procedures guarantees a productive trial more secure for the operator (less possibility of mistakes) and for the patient (user of the product in the central of sterilization).

**Functionalities of Itineris**

- **Packing**: Creation of Kit of container/paked/textile, with printing of the labels with its identification and the check-list for the operating room
- **Sterilization**: Activity of load and discharging of the sterilizers (autoclaves, plasma sterilizers, etc.) Management of the lot codes and ordinary maintenance of the validity of the sterilized product, testing of the sterilization cycles
- **Storing and Delivery**: Management and monitoring of the storage rooms, in the central of sterilization and the operating rooms. Stock in trade activities, Material lists in expiration/expired. Management of the delivery.

**Operating room**: Management of the operating activities with the recording of the used materials

- **Reception/Washing**: Receiving activity of used materials coming from the operating departments
- **Instruments maintenance**: delivery (with relevant labeling), withdrawing, researching and consulting of the instruments destined to the maintenance.
- **Thermodisinfection**: Management of the washing activities; loading, unloading and testing of the thermodisinfectors

*The Itineris and Itineris-LE system permit the traceability for each single surgical instruments.*
**Products Traceability Software**

Itineris-LE is a product derived from the Itineris system, it is destined to the sub-sterilization field.

**Functionalities of Itineris-LE:**
- **Packing:** Creation of Kit of container/packed/textile, with printing of the labels with its identification and the check-list for the operating room
- **Sterilization:** Activity of load and discharging of the sterilizers (autoclaves, plasma sterilizers, etc.) Management of the lot codes and ordinary maintenance of the validity of the sterilized product, testing of the sterilization cycles
- **Storing and Delivery:** Management and monitoring of the storage rooms, in the central of sterilization and the operating rooms. Stock in trade activities, Material lists in expiration/expired. Management of the delivery
- **Operating room:** Management of the operating activities with the recording of the used materials
- **Reception/Withdrawal:** Receiving activity of used materials coming from the operating departments
- **Washing/Disinfecting:** Management of the washing activities; loading, unloading and testing of the thermodisinfectors
- **Maintenance Instruments:** Delivery (with relevant labeling), withdrawing, researching and consulting of the instruments destined to the maintenance
- **Traceability:** Traceability of all the activities operated on the individual kit starting form the identification code. The traceable activities are: loading/unloading thermodisinfectors, packing, loading /unloading autoclaves, storage/delivery, using in the operating room, return to the washing area.

**The process**
The Itineris-LE system assists the operator during all the production phases of the process. Since the sub-sterilization environment has a few limits that can influence the operating methodologies (logistics, staff, production typologies), the Itineris-LE system is realized in order to offer a larger field of procedures and the possibility to adapt is own operating course to the requirements.

**Supported procedures:**
- Washing
- Packing
- Sterilization
- Storage/Delivery
- Operating Room
- Return of the used material

**Itineris Hardware**
The used hardware for the Itineris system and Itineris Light is chosed and selected from the informatic market basing a quality criteria.

**Post-sale service**
Cisa society supplies beside the system of Itineris a service of maintenance for software and hardware; Ordinary and Corrective maintenance for the hardware; Corrective, Ordinary and Evolutionary maintenance for the software. The formal supply procedures are: on Site, by Telephone, by Teleassistance.
Head Office (Rome)
Centre-South America manufacturing site (Joinville)
Rest of the World manufacturing site (Rome)
Sales and service office Asia countries (Singapore)
Sales and service office Latin America countries (Miami)
Sales and service office Sub-Saharan countries (Rabat)
Sales and service office Middle East and CIS countries (Amman)
Sales and service office India (New Delhi)
Agents-Distributors-Technical Assistance Centre
Commercial office CisaBrasile (São Paulo and Recife)