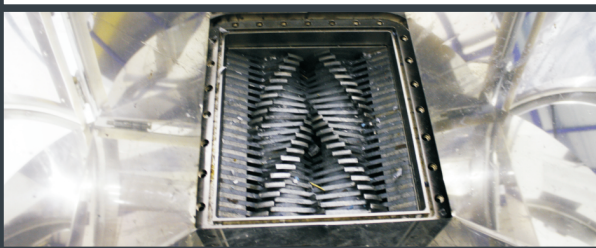
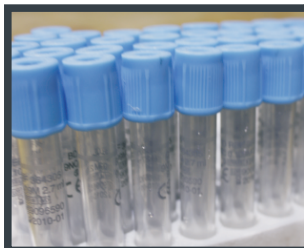


**85% WASTE  
REDUCTION  
MINIMUM €/KG  
TREATMENT COST**

# STERIFLASH 500

The biomedical waste management solution



[www.comtem.net](http://www.comtem.net)



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# STERIFLASH500

**STERIFLASH® ST500** is a device that treats potentially infectious biomedical waste and transforms it into ordinary waste which can be stored and treated in rubbish dumps. Robust and reliable, easy and quick to setup, this waste treatment process can now be set close to the production place, avoiding transport risks and dangers.

## Functioning principle:

Waste, deposited in the hopper, is mechanically shredded and then falls into the treatment tank. Once the tank is full, a processing cycle is started. After closing the upper door, a vacuum phase empties the air. Then, the injection of saturating wet steam, supplied by an external steam generator installed in the apparatus, occurs automatically.

The nominal parameters of the cycle are:

- Temperature: 135°C/275°F;
- Pressure: 3.2 Bar.
- Time: 20 minutes.

At the end of the cycle the front door opens automatically and the solid waste is released into a container. The liquids are drained off via the waste water network.

## Process monitoring and control:

An operating displays temperature and pressure values inside the treatment tank during the cycle.

## Traceability:

Cycle traceability is guaranteed by:

- Printed record: paper print on which the machine number, the cycle number and the date, temperature and pressure sampled are indicated, registering that the disinfecting cycle has been carried out successfully

## Safety:

Infection risk safety:

- A disinfection of surfaces in the hopper area is done every time the transparent lid is opened.
- The open door system inhibits the shredder starter, through a ISO EN 13849 PLC.
- The gaseous discharges are filtered (0.2µ microbiological filtering), condensed and treated by bubbling.
- The liquids are decontaminated and cooled.
- The shredder, installed in the process tank, is decontaminated at each cycle.
- A specific system makes a complete decontamination of liquids.
- Daily cleaning cycle must be performed, waste free, for efficient decontamination process.
- Machine certificated.

## Capacity:

- Volume of treated waste per cycle: 500 l

## Processing performance:

- About 500 liters of waste are treated per cycle. 8 cycles per day.

## Materials:

- Disinfection tank and generator: 304L stainless steel
- Shredder teeth: HARDOX carbon steel
- Bodywork: 304L stainless steel.

## TECHNICAL CHARACTERISTICS

Dimensions:

- Total height: 2.2 m.
- Width: 1.2 m.
- Length: 2.27 m

Weight:

- 2.000 kg

Weight/m<sup>2</sup>:

- 757,5 Kg/m<sup>2</sup>

## Installation configuration:

- Electricity, power supply configurations available: 380/400V, 50Hz/60Hz, 35A
- Water: Municipal, pressure: 4.5 Bar
- External steam connection necessary. Dry saturated steam at 5 bar.

## Consumption per cycle:

- Water: 50 l.
- Electricity: 6 kWh

→ Steriflash® accepts a large range of biomedical waste packaging.

## OPTIONS

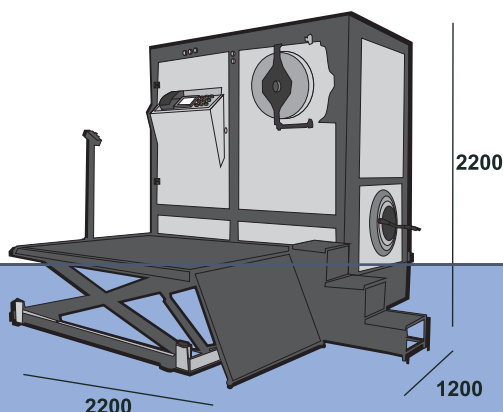
- Diagnosis and repair via internet or GSM modem
- Specific shape of teeth according use
- Centralized management of data for a group of apparatuses
- Ethernet connection
- Memory cards to save cycles data

## Types of Waste

- Syringes and needles
- Scalpels and other metallic instruments
- Petri plates and test tubes
- Plastic containers
- Dialysis filters
- Blood lines
- Cloths and other fabrics
- Nonwoven wipes
- Paper waste
- Organic material
- Glass
- Other biomedical waste

## Uses And Applications

- Hospitals
- Clinics
- Ambulatories
- Geriatric residences
- Analysis laboratories
- Microbiology hospital laboratories
- Dialysis centers
- Field hospitals
- Oncology centers
- Scientific laboratories
- Veterinary centers
- Fire Stations
- Schools and Universities
- Waste treatment centers
- Penitentiaries
- Cruise Ships



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