



STERILWAVE



INNOVATIVE SOLUTION  
FOR BIOMEDICAL WASTE  
MANAGEMENT



# Biomedical waste

## A worldwide challenge for public health & environment

Treating properly hospital waste must be a priority



From tens to hundreds kilos of dangerous bio hazardous waste are daily produced in each hospital



Infectious biomedical waste is considered as the most dangerous waste generated in hospital



More than 40% of healthcare centers don't have suitable system to treat infectious waste safely

The Covid-19 pandemic has increased the volume of infectious waste generated by healthcare centers which represents a major biological threat if not treated properly.



**The WHO and the United Nations recommend** to treat infectious waste directly on hospital site



**Sterilwave®,**  
the on-site solution  
compliant with the WHO's  
recommendations



# Sterilwave®

## A full range of on-site solutions

The most compact solution combining shredding & microwave heating in one single vessel



### STERILWAVE 100

Volume of the vessel: **100L**  
Treatment capacity: **200L/h, up to 20kg/h\***  
Average cycle time: **30 min**  
Dimensions (L x W x D): **1.7 x 1.2 x 1.1 m**  
Weight: **700kg**  
Recommended working area: **8sqm**  
Ceiling height: **2m**  
Electricity: **400V/ 3-Phase, 40A\*\***

### STERILWAVE 250

Volume of the vessel: **250L**  
Treatment capacity: **500L/h, up to 50kg/h\***  
Average cycle time: **30 min**  
Dimensions (L x W x D): **1.6 x 1.1 x 1.5 m**  
Weight: **1,200kg**  
Recommended working area: **10-12sqm**  
Ceiling height: **2,2m** (3m with automatic loading option)  
Electricity: **400V/ 3-Phase, 63A\*\***



### STERILWAVE 440

Volume of the vessel: **440L**  
Treatment capacity: **880L/h, up to 88kg/h\***  
Average cycle time: **30 min**  
Dimensions (L x W x D): **2 x 1.1 x 2 m**  
Weight: **1,400kg**  
Recommended working area: **15-20sqm**  
Ceiling height: **3m** (3.85m with automatic loading option)  
Electricity: **400V/ 3-Phase, 63A\*\***

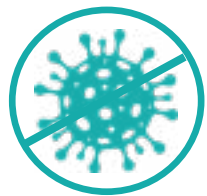
\*with a waste density of 1L=0.1kg, variable on the type of waste  
\*\*adaptable to other electrical specifications





## Sterilwave® Key benefits

Manufactured in France,  
Sterilwave® Technology is referenced worldwide



### Efficient

Up to 8log10 inactivation  
Compliant with all international standards



### Safe

No pressure  
No irradiation risk  
No chemicals



### Cost Reduction

Plug & Play solution  
Easy maintenance  
Low operating costs



### Eco-friendly

Only electricity  
No water, no liquid effluent  
Circular economy possibility



### No waste segregation

Adapted to any kind of medical waste with their bags and containers, including sharps and related



**Sterilwave®, a cost-competitive technology**  
that reduces your carbon footprint



## A 30-minute automatic process in one single vessel

From infectious waste to municipal waste



20°C



LOADING BIO-HAZARDOUS WASTE

No segregation  
Manual or Automatic  
(option)

40°C

GRINDING

Rotative blades for  
unrecognizable output  
waste

70°C

HEATING & STERILIZATION  
UP TO 110°

Microwave treatment  
No pressure

UP TO  
110°C

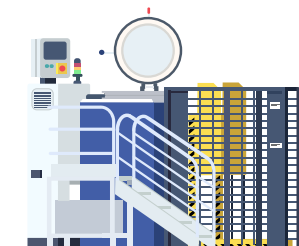
Full traceability



UNLOADING  
INERT WASTE



Infectious waste



85% volume reduction  
25% weight reduction



Compact, inert & dry waste  
Circular economy possibilities



# Sterilwave® Innovative solution

A comprehensive offer of technical services



**Technical support worldwide:**  
installation & training  
on customer site



**Real-time monitoring**  
of all operational data  
at distance



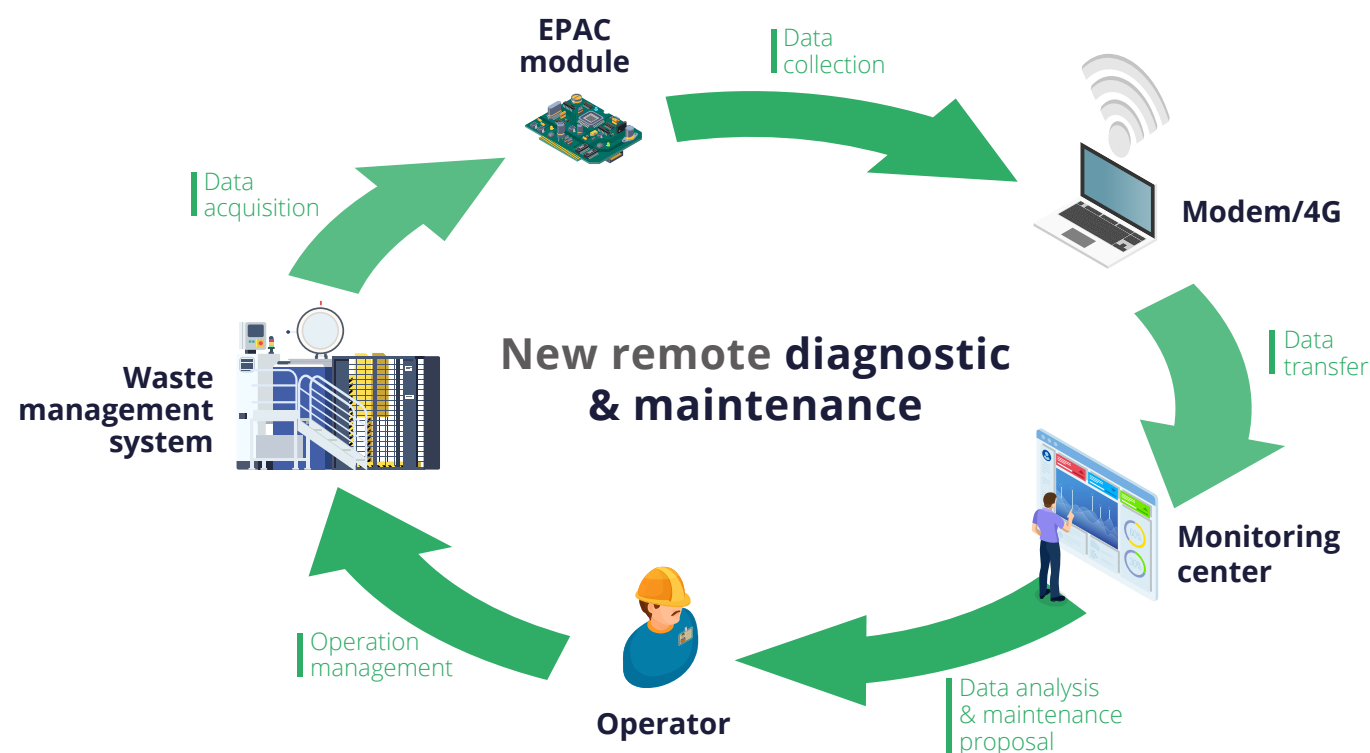
**Smart maintenance:**  
video tutorials &  
maintenance protocols on  
secured customer platform



**Factory in France:**  
continuous availability  
of spare parts & express  
shipping worldwide

Bertin Monitoring Center:

online diagnostic & maintenance system available 24/7



# Sterilwave® Multi-application solution

A patented technology adapted to your needs



**Hospitals, clinics, laboratories,**  
healthcare centers



**Specific integration on demand:**  
container, remote location, temporary  
installation & field hospitals



**Sterilwave®, a reliable plug & play solution**

For any type of biomedical waste

Hospital & laboratory waste, solid & liquid  
medical waste, human & animal pathological  
waste, sharps & prickly hospital waste with  
their containers, cultures and stocks,...

**Sterilwave is adapted to any waste  
listed in state and federal regulations as  
medical waste.**



BERTIN TECHNOLOGIES is a French scientific instrumentation manufacturer that designs and manufactures measurement, observation & detection systems and instruments for critical applications. Every day, Bertin Technologies pursues technological advances in the fields of Nuclear, Defence, Space, Big Science, Life Sciences and Health.

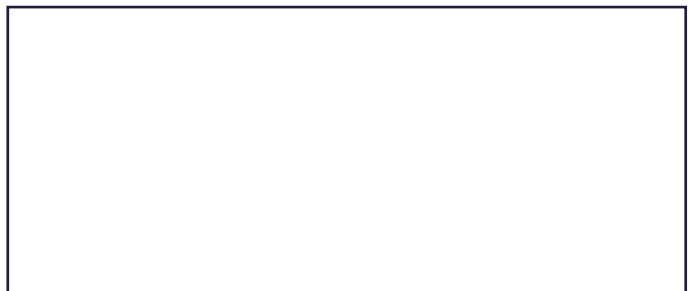
Its 530 employees share a desire for excellence, in the service of remarkable and innovative technological solutions. Its 2021 turnover amounts to 92 million euros. Based in Paris Region, Bertin Technologies Group comprises 3 brands – Bertin Instruments, Bertin Photonics & Bertin Medical Waste – and has operational subsidiaries in Europe (Germany, Italy, the United Kingdom, Sweden) and the United States.



A worldwide distribution network



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## DISCOVER BERTIN HEALTHCARE RANGE OF PRODUCTS

CONTROL	COLLECT	PREPARE	OBSERVE	ELIMINATE
				
<b>SaphyRAD</b> Radiological monitoring	<b>Coriolis</b> Biological air samplers	<b>Precellys</b> Tissue homogenizers	<b>InCellis</b> Cell Imaging System	<b>Sterilwave</b> Medical waste management