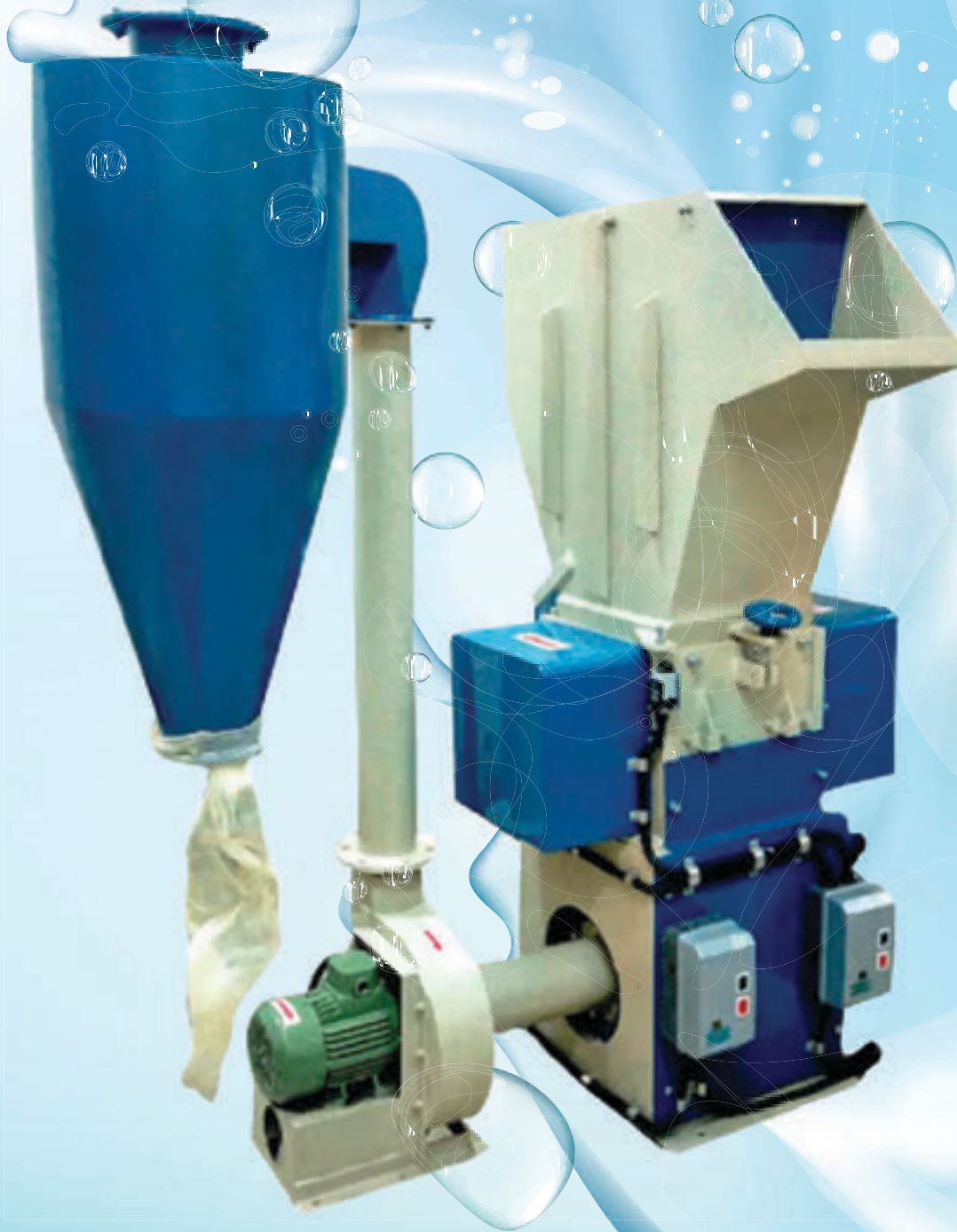




**GENIST**  
Leading Medical Advancement

# BIO MEDICAL WASTE EQUIPMENT



एन एस आई सी  
**NSIC**  
ISO 9001 : 2008



# BIO MEDICAL WASTE MICROWAVE STERILIZER

MODEL NO.: GTMS-001

## DESCRIPTION

GENIST TECHNOCRACY PVT LTD has been a leading Company in Bio- medical Equipment Since 2004. We are providing the best quality products All over India & Aboard. We are one of the leading manufacturer and supplier of Medical & Bio-Medical Equipment that meet the Quality Assurance Laboratories and Research & development Establishments.

## CONSTRUCTION

### Material of Construction of external body:

SS 304 or more external body with SS microwave applicator with microwave leakproof front cover. Inner microwave chamber construction: Specially designed rectangular chamber made of SS 316 Grade stainless steel.

## CAPACITY

▶ 20 LTR

▶ 30 LTR

▶ 60 LTR

## PRODUCT DESCRIPTION

- ▶ The product is based on the world's most promising, eco-friendly, cost-effective technology towards total disinfection of bio-medical waste.
- ▶ Microwave frequency in MHZ: 2450
- ▶ Microwave output power in KW: 1.5
- ▶ Power consumption in watts hour (Approximate): 1500 to 3500
- ▶ Operating voltage and frequency: 230+ 10 VAC, 50/60 Hz
- ▶ Duration of one disinfection cycle: 40-50 minutes.
- ▶ It is a non-burn technology.
- ▶ Monitoring System with E-cloud Based Online Temperature and Record Display and Printout for Each Batch Process.
- ▶ Touch Screen and Process Recorder
- ▶ Print out of weight processed by the system.
- ▶ Online temperature display along with the printing of process cycle using a printer to record process parameters.
- ▶ Online monitoring of process status and magnetron current.
- ▶ Inbuilt printer to record process start time, end time, and temperature log of the process along with the weight of the hospital waster processed.
- ▶ Microwave proof molded 3 (three) container/bins to hold the medical waste in Microwave
- ▶ Microwave generator provided.





- Control System-High end programmable logic control system to ensure total automatic disinfection cycle with minimum human intervention and single button operation.
- It is an Indigenous Technology patented by the Government of India.
- Complies with Regulatory standards and international conventions.
- The only point of generation treatment technology which eliminates misuse, pilferage and eradicates spread of secondary infections.
- Treats almost all categories of biomedical waste except Human/animal body parts,

CUSTOMIZED SIZES AVAILABLE

# BIO MEDICAL WASTE SHREDDER

MODEL NO.: GTBMS-001

## PRODUCT DESCRIPTION

Backed by rich industry knowledge, we are offering our customers an excellent quality of BMW Shredders. In order to design these shredders, The offered shredders are broadly applauded by our customers for their quality. Our customers can take these shredders from us at market-leading rates.

A closed system shredder designed for shredding recyclable plastic where the final treated waste would be non-reusable & non-recognizable and would be reduced to 70 to 80% of the volume.



## FEATURES

- ▶ PERFECT FINISH
- ▶ HIGH DURABILITY
- ▶ DIMENSIONAL ACCURACY

## SPECIFICATIONS

- ▶ Material of Construction of Outer Body: Mild Steel (M.S.), 5mm Thickness.
- ▶ Material of Construction of Cutter: Non-Corrosive and hardened Alloy Steel.
- ▶ Would be of robust design with minimum maintenance requirement.
- ▶ Would be properly designed and covered to avoid spillage and dust generation. It would be designed such that it has minimum manual handling.
- ▶ The hopper and cutting chamber of the shredder would be so designed to accommodate the waste bag full of biomedical waste.
- ▶ The shredder blade would be highly resistant and would be able to handle/shred wet waste, especially after microwave/autoclave/hydroclave.
- ▶ The motor would be connected to the shredder shaft through a gear mechanism to ensure low rpm and safety for better gripping and cutting of the biomedical waste.
- ▶ Electric Load: 3 KW or less with at least 4HP induction motor.

## BIO MEDICAL WASTE SHREDDER

- ▶ Type: Low Speed/ Low RPM (preferably 30 to 40 rpm)
- ▶ Waste Feeding Platform: MS Structure having minimum 3 feet height from discharge point to ground level.
- ▶ Low-speed, low-noise
- ▶ Blades are abrasion-resistant graded steel-duly heat treated.
- ▶ The hopper and cutting chamber of the shredder would be so designed to accommodate the waste bag full of biomedical waste.
- ▶ The shredder blade would be highly resistant shaft through a gear mechanism, to ensure low burn and safety for better gripping and cutting fa the biomedical waste.

- Would be three-phase induction-motor and the minimum capacity of the motor attached with the shredder would be adequate for carrying out for 30 Kg/hr. This would be ensured efficient cutting of the bio-medical waste as prescribed in the bio-medical waste (Management & handling) Rules.
- Would be provided with sliding System to avoid spreading of waste during removal of collection trolley.
- Cutter motor.
- Charging door and waste removal doors and easy operable complete with a door opening safety mechanism thus preventing and aerosol escaping.
- Provided with manual bag bucket filling mechanism.
- Provided with reverse rotation mechanism
- Provided with PLC Panel and emergency stop switch
- Provided with Audio Video alarm

## CONTROL PANEL

- Would be Pre-Wired and Powder Coated.
- Would be provided with auto stop/reversing. Emergency stop & Limit Switch with audio and/or visual alarm or indicator for the stoppage.

## SAFETY FEATURES

- Interlocking with Limit Switch.
- Shockproof & insulated as per safety norms.
- Reverse Motion to avoid overloading or jamming mechanism.
- Protection against the scattering of shredded waste.
- The unit would be suitably designed for operator safety. mechanical as well as electrical.
- Anti-vibration mounting would be provided.
- Low Noise (below 60dB) and No Vibration.
- Motor overloaded protection.
- Resettable over current breaker, RCB, MCB, Dipole switch, fuse.
- Voltage corrector as applicable for the product for protection against surge current & voltage fluctuations.
- Would be over-charging cut-off with visual symbol.

## AUTOMATIC EMERGENCY STOP

- Limit switch would be provided to switch off the Shredder its hopper lid or door of collection box in opened, so that shredder would be stopped automatically for the safety of the operator.
- In case of shock-loading (non-shred able material in the hopper, there would be a mechanism to automatically stop the shredder to avoid any emergency/ accident.

## ELECTRIC LOAD

- Electric Load: 5KW + 0.5 WK.

## POWER REQUIREMENT

- Power Input Voltage-Single or Three-phase fitted with Indian plug of appropriate rating.



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## STANDARD

- ▶ ISO, CE & GMP certified

## CAPACITY

- ▶ 10Kg/hour
- ▶ 30 Kg/hour
- ▶ 50Kg/hour
- ▶ 100kg/hour

CUSTOMIZED SIZE AVAILABLE.

# INTEGRATED AUTOCLAVE WITH INBUILT SHREDDER

MODEL NO.: GTIMS-001

## PRODUCT DESCRIPTION

The biomedical waste management process is essential for healthcare institutions striving to prevent and combat hospital-acquired infections and other biohazards. Genist has developed the IMS range to meet the needs of medical centers, clinics, hospitals, and laboratories of all sizes generating anywhere from a few kilos to several tones of biohazardous waste per day.

## CAPACITY

- ▶ 60 LITERS
- ▶ 100 LITERS
- ▶ UP TO 2000 LITERS

## TYPE

- ▶ Vertical Cylindrical

## SPECIFICATIONS

- ▶ Fully automated machine with PLC control panel and online printer
- ▶ Operating temperature up to 1100C+
- ▶ Automatic door operating mechanism
- ▶ Provided with State of Art waste shredding mechanism
- ▶ High temperature resistant silicon gasket
- ▶ Silent vacuum pump
- ▶ Multiple preprogrammed cycle option
- ▶ Leakage test
- ▶ Low start-up time
- ▶ With audio & visual alarm
- ▶ Steam Generator - Optional Item
- ▶ Microwave Generator
- ▶ Microbial inactivation Spore up to  $61\log_{10}$ , Virus up to  $61\log_{10}$  in compliance with STAATT and NFX30-503  
Based on innovative technology which combines grinding.

With microwave sterilization, Genist machines are Ultracompact and completely automated. No prior segregation of waste is required. This equipment can transform all types of clinical by-products into sterilized, inert, and unrecognizable waste within its single, unique vessel. Once the biomedical waste has been processed, it can then be considered normal municipal waste without any biological risk to anyone handling it. Genist solutions provide traceability, safety, and a guaranteed level of sterilization. They can also provide a massive reduction in the cost of waste removal compared to other standard solutions (collection, incinerators, autoclaves, chemicals).

CUSTOMIZED SIZES AVAILABLE AS PER CUSTOMER REQUIREMENT





## CONTACT US

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# Our Certifications

We Believe that the way to the summit passes through high-quality and reliable manufacturing.



Utility Author Registration Certificate

Category	Registration No.	Registration Date	Registration Status
A	123456789	12/03/2022	Active

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