



BIO-MEDICAL WASTE SHREDDER

TANCO PLT 244 A

Overview of the System



Our Bio-Medical Waste Shredder is a cutting-edge solution designed specifically for the shredding of recyclable plastic hospital waste. This system ensures that the final treated waste is non-reusable and non-recognizable, reducing the waste volume by 70-80%. The shredded material is then ready for environmentally safe disposal or further processing.

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KEY FEATURES

- Shredding Capacity: 25 Kg/hr
- Type: Low-Speed/Low-RPM (30-40 RPM)
- Blade Material: Non-corrosive, hardened alloy steel for maximum durability
- Motor: 3 KW induction motor, with at least 4 HP capacity for efficient waste shredding
- Construction: Outer body made of mild steel (5 mm thickness), ensuring durability and strength
- Waste Feeding: Manual through hopper, designed for ease of operation
- Discharge Height: Minimum 3 feet from discharge point to ground level for easy waste collection
- Safety: Includes automatic stop/reversing features, overload protection, and interlocking with limit switch

SAFETY FEATURES

- Operational Safeties:
 - Interlocking with limit switch
 - Shockproof & insulated as per safety norms
 - Protection against scattering of shredded waste
- Overloading Safeties:
 - Reverse motion to avoid overloading or jamming
 - Motor overload protection to ensure smooth operation
- Emergency Stop:
 - Limit switch to automatically stop shredder when hopper lid or collection box door is opened
 - Shock-loading detection for automatic shutdown in case of non-shreddable material
- General Safety:
 - Anti-vibration mounting for stability
 - Designed for operator safety, both mechanical and electrical

TECHNICAL SPECIFICATIONS

- Material of Construction (Outer Body): Mild Steel (M.S), 5 mm thickness
- Cutter Material: Hardened Alloy Steel, non-corrosive
- Waste Feeding Platform: MS Structure, 3 feet height from discharge point to ground level
- Waste Feeding System: Manual through Hopper
- Drive Mechanism: Belt or Gear Drive
- Motor Capacity: 3 KW or less, with a minimum of 4 HP induction motor

OPERATIONAL REQUIREMENTS

- Robust Design: Designed for minimal maintenance with a sturdy build
- Minimal Manual Handling: Reduces manual involvement to ensure safety
- Hopper & Cutting Chamber Design: Accommodates waste bags for seamless loading
- Induction Motor: Ensures low RPM for safety and better cutting performance
- Power Requirement: 220 VAC, 50Hz, single-phase with an appropriate Indian plug
- Power Input: Efficient use of electricity for optimal performance

TECHNICAL DATA SHEET

SPECIFICATION	DETAILS
Shredder Capacity	25 Kg/Hr
Shredding Type	Low Speed/Low RPM (30-40 RPM)
Outer Body Material	Mild Steel (MS), 5 mm Thickness
Cutter Material	Non-Corrosive Hardened Alloy Steel
Waste Feeding Platform	MS Structure, 3 feet height from ground level
Waste Feeding System	Manual, through Hopper
Electric Load	3KW or less, with at least 4HP induction motor
Shaft Type	Double Shaft
Drive Mechanism	Belt or Gear Drive
Control Panel	Pre-wired, powder-coated with auto-stop/reversing, emergency stop, limit switch, and audio/visual alarm
Safety Features	Interlocking limit switch, shockproof insulation, protection against scattering of waste
Motor Overload Protection	Reverse motion to prevent overloading or jamming
Noise Level	Low noise (below 60 dB)
Vibration	No vibration
Heat Dissipation	Cooling mechanism to maintain nominal temperature
Portability	Stationary installation type

WHY CHOOSE OUR BIOMEDICAL SHREDDER?

Our Biomedical Waste Shredder offers an efficient, reliable solution for reducing waste volume by 70-80%, making it easier to manage and dispose of hospital waste. Built with durable mild steel and hardened alloy steel cutters, it ensures long-lasting performance with minimal maintenance. The system is equipped with advanced safety features, including limit switches, motor overload protection, and shockproof insulation, ensuring operator safety. Powered by a 4HP induction motor, it delivers energy-efficient performance while keeping operational costs low. Additionally, it meets all regulatory standards for biomedical waste disposal, helping your facility maintain compliance with environmental laws. Easy to operate and maintain, this shredder is the perfect choice for hospitals and healthcare facilities looking for a cost-effective and safe waste management solution.