

ADVANCED AUTOMATION TECHNOLOGY

HEAVY DUTY AUTOMATIC SINGLE ROW WEAPON DISPOSAL SYSTEM

The Heavy Duty Automatic Single Row Weapon Disposal System Is A Fully Automated Solution Designed For The Safe And Irreversible Destruction Of Firearms And Military-Grade Weapons. Using Advanced Shredding And Induction Melting Technology, It Ensures Secure, Efficient, And Standards-Compliant Disposal.

99.9%
Safety Compliance

24/7
Automated Operation

ISO
Certified Standards

SYSTEM OVERVIEW

ABOUT THE SYSTEM

Complete Neutralization

Automated Operation

Standards Compliance



The Heavy Duty Automatic Single Row Weapon Disposal System Is A State-Of-The-Art, Fully Automated Machine Designed For The Secure And Irreversible Destruction Of Firearms And Military-Grade Weapons. It Utilizes A Dual-Stage Disposal Process, First Shredding Weapons Into Small, Unrecognizable Fragments And Then Melting The Metal In An Induction Furnace To Ensure Complete Destruction. Equipped With High-Strength Cutting Blades, Automated Feeding, And A PLC-Based Control System, The Machine Ensures Efficient, High-Security Disposal While Adhering To Military And Law Enforcement Standards. Its Robust Construction, Advanced Safety Features, And Energy-Efficient Operation Make It An Ideal Solution For Defense Organizations, Law Enforcement Agencies, And Arms Control Initiatives.

TECHNICAL DETAILS

SHREDDING UNIT

GENERAL SPECIFICATIONS

Machine Type	Heavy-Duty, High-Torque Weapon Shredding Machine
Operation	Fully Automated
Processing Capability	Designed To Handle A Variety Of Small Arms, Automatic Weapons, And Firearms, Including: INSAS Rifles, Light Machine Guns (LMG 7.62 Mm), Medium Machine Guns (MMG 7.62 Mm), AK-47 Rifles, Handguns And Sidearms, Any Other Military-Grade Small Arms.
Shredding Chamber Dimensions	Engineered For Optimal Efficiency With Single-Weapon Intake Per Cycle
Output Fragment Size	Small, Unrecognizable Metal Pieces (Preventing Reuse Or Reassembly)
Throughput Rate	High-Speed Shredding With An Optimized Duty Cycle
Material Compatibility	Hardened Steel, Aluminum, Polymer Components, And Composite Weapon Parts

CUTTING MECHANISM

Blade Type	High-Tensile Alloy Steel Blades
Material	H13 High-Grade Alloy Steel
Blade Hardness	HRC 55
Blade Configuration	Multi-Tooth Design With High Cutting Efficiency
Cutting Torque	High-Torque Motor With Variable Speed Control
Wear Resistance	Designed For Extended Operation Under High-Impact Conditions

STRUCTURAL AND SAFETY FEATURES

Frame Material	Reinforced Heavy-Duty Steel Construction
Vibration Dampening	Heavy-Duty Rubber Pads For Shock Absorption
Enclosure	Fully Enclosed Mesh And Perspex Panels For Operator Safety And Visibility
Emergency Shutoff System	Instant Shutdown Capability For Operator Safety
Monitoring & Surveillance	Camera Mounting Points For Remote Monitoring - Data Logging System For Real-Time Tracking Of Weapon Destruction

TECHNICAL DETAILS

INDUCTION MELTING FURNACE

GENERAL SPECIFICATIONS

Furnace Type	Induction Melting Furnace With Hydraulic Tilting Mechanism
Melting Capacity	100 Kg Per Batch
Power Rating	75 KW
Maximum Operating Temperatures	1700°C
Heating Method	Induction Coil System
Furnace Lining	High-Performance Refractory Material For Durability

COOLING AND CIRCULATION SYSTEM

Cooling System	Closed-Loop Demineralized (DM) Water Cooling
Cooling Tower Capacity	20 TR
Pump Type	High-Flow Circulation Pump
Water Tank Capacity	Overhead Tank: 5000 Liters Underground Tank: 10,000 Liters (Provided By Customer)

SAFETY AND CONTROL FEATURES

Temperature Monitoring	Real-Time Automatic Control
Overheat Protection	Failsafe Shutdown At Critical Temperatures
Automated Hydraulic Tilting	Precision Control For Molten Metal Pouring
Electromagnetic Shielding	To Prevent Interference With Sensitive Equipment

Applications

Military Ordnance Disposal

Defense Industry Metal Recycling

Law Enforcement Firearm Destruction

Disarmament & Demilitarization Programs

KEY FEATURES

- ▲ Frame Material: Reinforced Heavy-Duty Steel Construction
- ▲ Vibration Dampening: Heavy-Duty Rubber Pads For Shock Absorption
- ▲ Enclosure: Fully Enclosed Mesh And Perspex Panels For Operator Safety And Visibility
- ▲ Electromagnetic Shielding: To Prevent Interference With Sensitive Equipment
- ▲ Automated Hydraulic Tilting: Precision Control For Molten Metal Pouring
- ▲ Emergency Shutoff System: Instant Shutdown Capability For Operator Safety
- ▲ Temperature Monitoring: Real-Time Automatic Control
- ▲ Overheat Protection: Failsafe Shutdown At Critical Temperatures
- ▲ Monitoring & Surveillance

