



# SAK AUTOMATION PRIVATE LIMITED

“Sustainability Through Innovations”



Your Trusted Partner in  
Innovative Recycling Solutions



#startupindia

## ABOUT US

### **“30 Long Years Of Manufacturing Excellence With Quality At It's Best!”**

With over 30 years of experience, we specialize in cutting-edge recycling machinery that transforms waste management practices globally. From CRT Cutting Machines to Lithium Battery Recycling Plants, we are dedicated to making e-waste recycling efficient and sustainable.

We have developed more than 100 bespoke machines, designed by Mr. Karthikeyan, that are unmatched in the market for their performance and efficiency. Our mission is to revolutionize e-waste management with top-tier recycling machines that drive sustainability and empower India's recycling industry.

## OUR MISSION

“To revolutionize e-waste management with innovative, top-tier recycling machines that drive sustainability and empower India's recycling industry.”

## OUR VISION

“To become India's premier E-waste machine powerhouse, renowned by every recycler and new enterprise as the go-to for cutting-edge recycling solutions.”

## QUALITY AND INNOVATION REDEFINED!

We take immense pride in our unwavering commitment to delivering exceptional quality and outstanding service. At the core of our operations lies a robust Research & Development (R&D) and Quality Control (QC) department, where innovation meets precision. Our skilled team continuously strives to design and develop advanced, customized solutions tailored to meet the specific requirements of our clients.

Through rigorous testing and successful trials at our facility, we ensure that every machine we deliver meets the highest standards of performance and reliability. From concept to execution, our in-house design and development capabilities allow us to bring unique and innovative machinery to the market.

Our dedicated team is always available to provide both online and offline support, offering operational guidance, technical tips, and customized suggestions to handle a variety of materials with ease. With clear explanations and comprehensive technical assistance at every stage, we ensure that our clients feel confident and empowered.

## Why Choose Us?

At the core of our business is a commitment to innovation, customization, and customer satisfaction. Our machines are designed and developed entirely in-house, allowing us to offer tailor-made solutions that precisely meet the needs of our clients. Here's why we stand out in the industry and why choosing us is the right decision for your business:

### 1. Advanced Automation & Customization

- Our machines are available in both semi-automatic and fully automatic versions, reducing manual labor and increasing efficiency.
- Every machine can be customized according to specific customer requirements, ensuring it fits seamlessly into their operations.
- Unlike standard market machines, we are open to modifying designs as per customer suggestions, making our solutions truly personalized.
- We incorporate the latest industrial automation technologies, such as PLC-based control systems, to enhance performance, precision, and ease of use.

### 2. Focus on High Production Efficiency

- Our machines are designed to deliver higher efficiency and better output than other machines available in the market.
- Built for high-volume production, our machines are more suitable for businesses looking to scale up their operations.
- We focus on durability, energy efficiency, and minimal downtime, ensuring cost-effective and sustainable operations.

### 3. Compliance with CPCB Norms for Pollution & Safety

- Our machines are manufactured in strict adherence to CPCB (Central Pollution Control Board) norms, ensuring environmental compliance.
- Each machine is designed with pollution control measures, such as dust collectors, bag filters, and air filtration systems, to minimize emissions and environmental impact.
- We prioritize operator safety by incorporating protective enclosures, emergency shut-offs, and ergonomic designs to prevent workplace hazards.

### 4. Reliable & Sustainable Solutions

- Our machines are built for long-term durability, minimizing the need for frequent repairs or replacements if maintained properly.
- Designed for energy efficiency, our solutions contribute to sustainable and cost-effective recycling practices.

## End-to-End Support for E-Waste Recycling Business

Starting an e-waste recycling unit involves several steps beyond just acquiring machines. We go beyond manufacturing and offer comprehensive support:

### Guidance for E-Waste Authorization & Compliance:

- We assist clients in obtaining the necessary e-waste authorization certificate and help with factory interior setup as per regulatory requirements.
- Our expertise ensures a smooth and compliant setup, avoiding unnecessary delays.

### Complete Factory Setup Assistance:

- We manufacture all mandatory e-waste recycling machines required by CPCB norms, ensuring your facility meets regulatory standards.
- Our machines seamlessly integrate into recycling plants, optimizing workflow and productivity.

### On-Site Installation & Setup:

- Most of our machines are plug-and-play, requiring minimal setup.
- For machines requiring assembly, our experienced team handles installation and optimization for smooth operations.

### Knowledge Transfer & Employee Training:

- If required, we provide hands-on training to client employees on operating the machines efficiently.
- Custom operation manuals can also be provided for easy reference and long-term use.

### Lifetime Service & Consultation:

- We offer 6 months of complimentary service post-installation.
- Beyond this period, we provide lifetime service support on a chargeable basis, ensuring our clients always have expert assistance when needed.
- Ongoing technical consultation helps businesses optimize their production and keep up with industry advancements.

### 1. SHREDDER

- **Purpose:** To reduce the size of electronic waste, making it easier to handle and process in subsequent stages.

- **Types:**

**Plastic Shredder:** Designed to break down plastic components from e-waste such as casings, keyboards, and other non-metallic parts. Ensures efficient separation and recycling of plastic materials.

**Hard Disk Shredder:** Specifically built to destroy hard drives and data storage devices, ensuring complete data destruction and metal recovery.

- **Output:** Processes 500kg to 2 tons per hour, depending on the material and shredder capacity
- **Justification:** Shredding is the first step in the recycling process, breaking down large items such as laptops, televisions, and appliances into smaller, manageable pieces. This machine is essential for improving the efficiency of downstream separation processes.



**\*All these machines are customizable based on customer needs.**

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### SPECIFICATIONS

**Machine Dimensions:** 1250 x 1250 x 1000 / 2500 x 1500 x 1500  
(L x H x W)

**Capacity:** Basic - 500 Kg/hr  
Higher - 2 Ton/hr

**Power Supply:** 15 HP / 45 HP

**Automation Grade:** Fully Automatic  
**Phase:** Three Phase

### 2. EDDY CURRENT SEPARATOR

- Purpose:** To separate non-ferrous metals (such as aluminum and copper) from the shredded e-waste.
- Output:** Recovers up to 98% of non-ferrous metals from shredded material.
- Justification:** This machine is crucial for recovering valuable non-ferrous metals from e-waste, which can be sold or reused in manufacturing. It enhances the economic viability of the recycling process by maximizing material recovery.



#### SPECIFICATIONS

**Machine Dimensions:** 2500 x 1000 x 1200 / 4000 x 1200 x 1500 (L x H x W)

**Capacity:** Basic - 100 Kg/hr  
Higher - 500 Kg/hr

**Power Supply:** 2HP / 5HP

**Automation Grade:** Automatic

### 3. MAGNETIC SEPARATOR

- Purpose:** To remove ferrous metals (like iron and steel) from the e-waste stream.
- Output:** Extracts ferrous materials from the waste stream
- Justification:** Magnetic separation is vital for isolating ferrous metals, which are abundant in e-waste. This machine helps in the efficient sorting of metals, reducing contamination and improving the purity of recovered materials.



#### SPECIFICATIONS

**Machine Dimensions:** 2500 x 1200 x 2000/ 4000 x 1500 x 3000 (L x H x W)

**Capacity:** Basic - 500 Kg/hr  
Higher - 3 Ton/hr

**Automation Grade:** Automatic

**\*All these machines are customizable based on customer needs.**

### 4. PRINTER/CATRIDGE PROCESSING FACILITY

**Purpose:** Safely dismantles and processes printers and ink/toner cartridges to recover reusable materials and prevent hazardous waste contamination.

**Output:** Achieves up to 90% recovery of plastic, metal, and toner/ink residues, ensuring efficient recycling and minimal environmental impact.

**Justification:** Printers and cartridges contain plastics, metals, and residual inks/toners, which can be harmful if not properly handled. This facility ensures safe separation and disposal of waste materials, promoting sustainability and compliance with environmental regulations.



**\*All these machines are customizable based on customer needs.**

### SPECIFICATIONS

**Machine Dimensions:** 2500 x 1200 x 2000/ 4000 x 1500 x 3000  
(L x H x W)

**Capacity:** **Basic** - 500 Kg/hr  
**Higher** - 3 Ton/hr

**Automation Grade:** Automatic

## OUR PRODUCTS

### 5. CFL TREATMENT FACILITY

- **Purpose:** Safely processes and recycles Compact Fluorescent Lamps (CFLs) by separating hazardous materials, ensuring environmental safety.
- **Output:** Achieves up to 95% separation of glass, metal, and phosphor powder, minimizing contamination and maximizing material recovery.
- **Justification:** CFLs contain mercury and other hazardous substances that can be harmful if improperly disposed of. This facility ensures safe extraction and separation of components, preventing environmental pollution and enabling responsible recycling.



**\*All these machines are customizable based on customer needs.**

### SPECIFICATIONS

**Machine Dimensions:** 1000 x 1000 x 1200 / 1200 x 1200 x 1500  
(L x H x W)

**Capacity:** Basic - 500 Kg/hr  
Higher - 2 Ton/hr

**Power Supply:** 1 HP / 3 HP  
**Automation Grade:** Automatic

## OUR PRODUCTS

### 6. CRT CUTTING MACHINE

- Purpose:** To safely process and recycle cathode ray tubes (CRTs) from older television sets and monitors.
- Output:** Processes 10 to 30 CRT units per hour, ensuring safe handling of hazardous materials.
- Justification:** CRTs contain hazardous substances such as lead, which require specialized treatment. This facility ensures that these dangerous materials are handled safely, protecting both workers and the environment.

#### VARIANTS

##### TWO-HEADED



##### SPECIFICATIONS

**Machine Dimensions:** 3000 x 1500 x 1250 (L x H x W)  
**Capacity:** 10 Picture Tube/hr  
**Power Supply:** 4 HP  
**Automation Grade:** Fully Automatic

**\*All these machines are customizable based on customer needs.**

##### FOUR-HEADED



##### SPECIFICATIONS

**Machine Dimensions:** 4000 x 1500 x 1250 (L x H x W)  
**Capacity:** 30 Picture Tube/hr  
**Power Supply:** 6 HP  
**Automation Grade:** Fully Automatic

**\*All these machines are customizable based on customer needs.**

## OUR PRODUCTS

### 7. LCD/LED PROCESSING FACILITY

- **Purpose:** To process and recycle LCD and LED screens from televisions, monitors, and other display devices.
- **Output:** Handles 100 to 800 screens per day, recovering useful components.
- **Justification:** LCD and LED screens are increasingly common in e-waste. This facility enables the safe dismantling and recycling of these components, ensuring that valuable materials are recovered and hazardous substances are properly managed.



**\*All these machines are customizable based on customer needs.**

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#### SPECIFICATIONS

**Machine Dimensions:** 1500 x 1500 x 1200/ 2500 x 1500 x 2500  
(L x H x W)

**Capacity:** Basic - 30 TV per hour  
Higher - 100 TV per hour

**Power Supply:** 3HP / 5HP

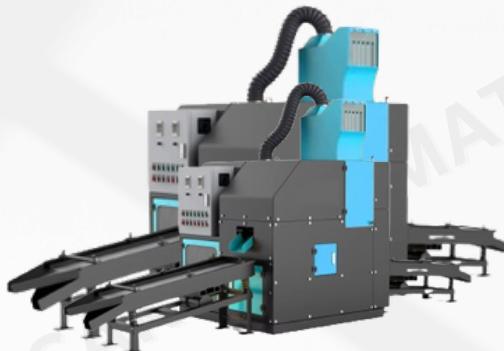
**Automation Grade:** Automatic

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## OUR PRODUCTS

### 8. CABLE RECYCLING (Copper Granulator)

- Purpose:** To process and recycle cables, recovering copper and other metals.
- Output:** Processes 100 to 800 kg of cables per hour, recovering up to 98% pure copper.
- Justification:** Cables and wiring are a significant source of copper in e-waste. The copper granulator efficiently separates the metal from its insulation, allowing for high-purity copper recovery, which is economically beneficial.



**\*All these machines are customizable based on customer needs.**

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#### SPECIFICATIONS

**Machine Dimensions:** 3000 x 2500 x 3000 / 4000 x 2500 x 4000  
(L x H x W)

**Capacity:** Basic - 100 Kg/hr  
Higher - 500 Kg/hr

**Power Supply:** 15HP / 45HP

**Automation Grade:** Fully Automatic

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### 9. COMPRESSOR CUTTING MACHINE

- Purpose:** To dismantle compressors from refrigeration units and air conditioners.
- Output:** 50 Compressor per hour
- Justification:** Compressors contain valuable metals and refrigerants that must be safely recovered. This machine facilitates the safe dismantling of compressors, enabling the extraction of these materials for reuse or safe disposal.

#### SPECIFICATIONS

**Machine Dimensions:** 2500 X 1250 x 1600

**(Length x Height x Width)**

**Capacity:** 50 compressors per hour

**Power Supply:** 3HP single phase / 5HP 3 phase

**Current:** 16 A

**Automation Grade:** Fully Automatic

**Phase:** Single Phase (Basic)

Three Phase (Higher)

**Cutting Time:** 20 to 60 secs

**Advantage:** Easy to operate, More safety features and updated software.



**\*All these machines are customizable based on customer needs.**

#### VARIANTS

##### 1. COMPRESSOR CUTTING MACHINE - BASIC VERSION

It is used to cut fridge compressors. It cuts in circular motion

##### 2. COMPRESSOR CUTTING MACHINE WITH VERTICAL ATTACHMENT

It is used to cut both fridge and AC compressors. It cuts in both circular motion and vertical motion compatible for fridge and AC compressors.

##### 3. ADVANCED COMPRESSOR CUTTING MACHINE WITH VERTICAL ATTACHMENT AND AUTOMATIC EJECTION (UNLOADING)

It provides multi-axis cutting compatible for fridge and AC compressors. It is operated by Joystick for adjustment of nozzles making it easy to operate.

##### 4. ADVANCED COMPRESSOR CUTTING MACHINE WITH VERTICAL ATTACHMENT AND AUTOMATIC EJECTION WITH OIL DRAINING FEATURE

It has special station for Oil draining which can be used to drill and remove oil from the compressors before proceeding with cutting.

## OUR PRODUCTS

### 10. MOTOR RECYCLING FACILITY

- **Purpose:** To dismantle and recycle electric motors found in various electronic devices and household appliances.
- **Justification:** Electric motors contain valuable metals like copper and aluminum. This facility efficiently recovers these metals, reducing the need for raw material extraction and providing a profitable source of recycled materials.
- The Motor Recycling Facility includes four machines:(5HP Hydraulic pack, 15ton Load.)

#### - Core cutting Machine

With automatic safety polycarbonate door and Limit sensors.

#### - Rotar Aluminum cutting Machine

With pneumatic clamping, Automatic safety polycarbonate door, Limit sensors

#### - Rotar Shaft pressing Machine

With shaft guide, safety polycarbonate door and Limit sensors

#### - Coil pulling Machine

With auto size adjustment, auto ejection, Fast and safe operation, Sensors, PLC etc., Auto size adjustment and ejection is pneumatic.



**\*All these machines are customizable based on customer needs.**

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### SPECIFICATIONS

**Machine Dimensions:** 1500 x 1500 x 1000 / 1800 x 1400 x 1200  
(L x H x W)

**Power Supply:** 20 HP / 25 HP

**Automation Grade:** Fully Automatic

### 11. GAS RECOVERY & HANDLING FACILITY

- **Purpose:** To capture and handle refrigerant gases from air conditioners and refrigerators.
- **Output:** Recovers up to 95% of refrigerant gases per unit, ensuring minimal loss and safe containment.
- **Justification:** Refrigerants can be harmful to the environment if released. This facility ensures that these gases are safely recovered and properly handled, preventing environmental damage and complying with regulations.



\*All these machines are customizable based on customer needs.

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#### SPECIFICATIONS

**Machine Dimensions:** 600 x 600 x 1000 / 900 x 900 x 1200  
(L x H x W)

**Capacity:** **Basic** - 10 compressor/hr  
**Higher** - 50 compressor/hr

**Power Supply:** 1 HP / 2 HP

**Automation Grade:** Fully Automatic

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## OUR PRODUCTS

### 12. OIL RECOVERY & HANDLING FACILITY

- **Purpose:** To recover and safely handle oils found in compressors and other electronic appliances.
- **Output:** Extracts up to 99% of recoverable oils, ensuring safe handling and disposal.
- **Justification:** Oils used in compressors can be hazardous if not handled correctly.



\*All these machines are customizable based on customer needs.

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#### SPECIFICATIONS

**Machine Dimensions:** 600 x 600 x 1000/ 900 x 900 x 1200  
(L x H x W)

**Capacity:** Basic - 10 compressors/hr  
Higher - 50 compressors/hr

**Power Supply:** 1HP / 2HP

**Automation Grade:** Fully Automatic

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### 13. PCB COMPONENT REMOVAL MACHINE

- **Purpose:** To grind and sort PCBs, facilitating the recovery of metals like gold, silver, and copper.
- **Output:** Processes 100 kg per hour to 300 kg per hour, depending on board size and complexity.
- **Justification:** After component removal, grinding and sorting PCBs is essential to extract fine particles of precious metals. This machine is particularly important for processing PCBs from smartphones, computers, and other electronics, ensuring maximum recovery of high-value materials.



**\*All these machines are customizable based on customer needs.**

#### SPECIFICATIONS

**Machine Dimensions:** 3000 x 2500 x 2500 / 5000 x 4000 x 3000  
(L x H x W)

**Capacity:** **Basic** - 100 kg/hr  
**Higher** - 300 kg/hr

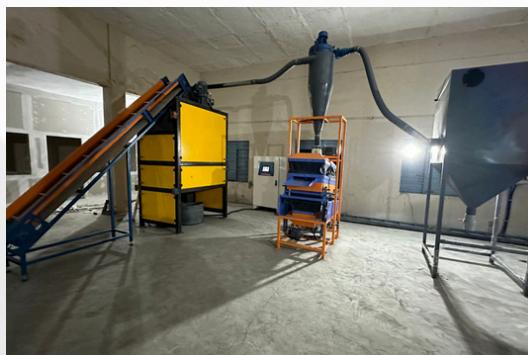
**Power Supply:** 1HP / 3HP

**Automation Grade:** Fully Automatic

### 14. PCB RECYCLING PLANT

- **Shredder** - Shredder is used to break the PCB boards into small pieces to feed it into the hammer mill. This shredder is designed in inclined position for feeding of PCBs. A 7.5 HP 440V AC motor is used. A sensor is used to detect shredder jam.
- **Hammer Mill** - This is a specially designed hammer mill. Both hammer and shell is made by Carbon steel and hardened to give better life and to reduce mix up of impurities. This has 25 HP, 440V, AC motor.
- **Conveyors** - Two types of conveyors are used in this plant. One is Feeding conveyor made up of PVC belt with cleats. Another one is Screw conveyor. Both conveyors use 1 HP, 440V, AC geared motors.
- **Vibro Sieve** - A Vibratory sieve is used after hammer mill. This extracts Resin material and copper blends. Semi hammered particles are taken back into hammer mill to re-feed by a screw conveyor. A 2 HP, 440V AC Motor is used in this machine
- **Cyclone dust collector** - A cyclone dust collector is used to suck the segregated copper blend to feed into a density separator to sort out impurities and fibre materials from the copper blend. A 3 HP, 440V motor is used in this machine.
- **Feeder to density separator** - A 1 HP, 440V AC gear motor is used to feed the density separator.
- **Density separator** - The copper blend is fed into a density separator having 2 HP, 440V AC motor and a 2 HP Drive motor. This machine is used to separate copper particle from impure fibre materials.
- **Bag Filter** - Bag Filter is provided to filter out dust from exhaust air. 9. Control panel Control panel have a Touch HMI, PLC and Contactors, relays, motor production device, VFD etc.

All the above machines are controlled and monitored by this control panel. It stops operations when faults and error occurs.



#### SPECIFICATIONS

**Machine Dimensions:** 3000 x 2500 x 2500 / 5000 x 4000 x 3000 (L x H x W)

**Capacity:** Basic - 100 Kg/hr  
Higher - 300 Kg/hr

**Power Supply:** 15HP / 45HP

**Automation Grade:** Fully Automatic

**Output:** Copper

**\*All these machines are customizable based on customer needs.**

## OUR PRODUCTS

### 15. REFRIGERATOR / WASHING MACHINE SHREDDING MACHINE

- Purpose:** To shred and process refrigerators, separating metals, plastics, and insulating materials for recycling.
- This is the only machine available in the market that can separate 95% of the foam from other materials, ensuring higher efficiency in material recovery.

#### MACHINE SPECIFICATIONS

- Build Quality:** Constructed from hardened steel, with durable hardened hammers
- Configuration:** Vertical high-speed hammer mill for efficient material breakdown
- Conveyors:** Includes input and output conveyors for streamlined operation
- Magnetic Separator:** Integrated for automatic removal of ferrous materials

#### UNIQUE FEATURES

- Innovative Design:** Proprietary R&D-driven design that separates foam, plastic, and steel without cross-contamination.
- High Efficiency:** Achieves a 95% success rate in separation of foam, ensuring high-quality output.
- Labor Savings:** Requires minimal manpower compared to standard shredders, optimizing operational costs.
- Cost-Effective:** Priced nearly 50% lower than comparable market machines.
- User-Friendly Maintenance:** Simple tool changes and operation with high-speed, low-maintenance performance.



#### SPECIFICATIONS

##### Machine Dimensions:

60 feet x 15 feet x 12 feet

(L x H x W)

**Capacity:** Basic - 3 Ton/hr

Higher - 5 Ton/hr

**Power Supply:** 100 HP / 150 HP

**Automation Grade:** Fully Automatic

**\*All these machines are customizable based on customer needs.**

### 16. PRECIOUS METAL EXTRACTION SYSTEM

- **Purpose:** To recover precious metals such as gold from processed e-waste.
- **Output:** Extracts up to 100g of precious metals from e-waste, processing 50 to 300 kg per batch.
- **Justification:** Precious metals are found in small quantities in electronic devices but represent significant value. .



\*All these machines are customizable based on customer needs.

### 17. LITHIUM BATTERY RECYCLING PLANT

- Purpose:** To safely recycle lithium-ion batteries from smartphones, laptops, and other portable devices.

#### Machine Description

##### 1.FEEDING CONVEYOR:

This is the Feeding Conveyor where the batteries are loaded. This is a PLC controlled conveyor having 1 HP motor.

##### 2.SHREDDER COMBINED WITH SOFT MILL:

This is our own design to separate black mass from the battery without impurities. This has a shredding chamber combined with soft mill. The shredder has special cutters. First the batteries are broken into pieces and then milled. A cyclone is produced inside the chamber and some black mass (15%) is separated in this machine which is pure and free from dust.

##### 3.OUTPUT CONVEYOR:

This Conveyor is also controlled by PLC and has some Linear movement. The power of this Conveyor is 2 HP. Exhaust pipe is provided.

##### 4.TRANSPORT CONVEYOR:

This Conveyor is used to transport the remaining shredded and milled materials which is obtained when first black mass is removed. This conveyor is fully 2 HP. Exhaust pipe is provided.

##### 5.HAMMER MILL:

The transported material is fed to a hammer mill. This hammer mill is not a regular design but for high RPM. 30 HP motor is provided for this. Proper exhaust pipe is provided.

##### 6.ZIG ZAG SEPARATOR:

This zig zag separator is used to separate light weight plastic film (PE, PP) called insulators. A 5HP blower is used for this. This has a bag filter.

##### 7.CYCLONE MATERIAL COLLECTOR:

The hammered material is further sucked by a cyclone material collector. This has a 5 HP blower. Bag filter is also provided.

##### 8.VIBRO SIEVE:

The collected material is fed into a vibro sieve where some more black mass is separated (20%). This black mass have some impurities mixed with it which is copper and aluminum dust. Exhaust pipe is provided. 5 HP power is used.

##### 9.CONTROL PANEL:

A Centralized control panel is provided. We can control and monitor the plant from a separate Glass Room.

# OUR PRODUCTS

**Justification:** Lithium batteries are both valuable and hazardous. This plant allows for the safe extraction of lithium and other materials, while preventing environmental harm from improper disposal.

## SCOPE OF WORK

### 1.NEUTRALIZING PLANT

Salt water tank build by concrete is to be done by the customer.

Tank - 4 numbers with dimensions 6feet width x 12feet length x 5feet height.

If customer wants we can supply Handling machines for dipping, washing and drying with 4 baskets. If not , the customer can do by themselves.

### 2.RECYCLING PLANT

The Recycling Plant is completely done by us.



**\*All these machines are customizable based on customer needs.**

## SPECIFICATIONS

**Machine Dimensions:** 60 feet / 15 feet / 30 feet  
(L x H x W)

**Capacity:** Basic - 50 Kg/hr - Rs.32,00,000  
Higher - 300 Kg/hr - Rs.1,60,00,000

**Power Supply:** 45 HP / 100 HP

**Automation Grade:** Fully Automatic

### 18. CYCLONE DUST COLLECTOR

- Purpose:** To collect and manage dust and fine particles generated during the recycling process.
- Output:** Captures 99% of dust and airborne particles generated during processing.
- Justification:** Dust and particulate matter can pose serious health risks to workers and can contaminate recycled materials. The Cyclone Dust Collector is vital for maintaining a clean and safe working environment, improving air quality, and ensuring that the recycling process does not release harmful particles into the environment.



**\*All these machines are customizable based on customer needs.**

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#### SPECIFICATIONS

**Machine Dimensions:** 1500 x 3000 x 1500 / 3000 x 3000 x 1500  
(L x H x W)

**Power Supply:** 3 HP / 10 HP

**Automation Grade:** Fully Automatic

### 19. BAG FILTER

- **Purpose:** To filter and capture fine dust particles from the air, ensuring clean emissions during the recycling process.
- **Output:** Captures up to 99.9% of fine dust, maintaining compliance with environmental regulations.
- **Justification:** This machine complements the Cyclone Dust Collector by providing an additional layer of filtration. It captures smaller particles that might escape other systems, ensuring that emissions meet environmental standards and contributing to a safer workplace.



**\*All these machines are customizable based on customer needs.**

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#### SPECIFICATIONS

**Machine Dimensions:** 1500 x 3000 x 1500  
(L x H x W)

**Automation Grade:** Fully Automatic

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### 19. AIR DENSITY FOAM SEPARATOR

- **Purpose:** Our Air Density Foam Separator, a high-efficiency solution for e-waste recycling. This advanced machine effectively separates foam waste from plastic and metal waste, ensuring cleaner material recovery and reducing environmental impact.
- **Output:** The output of the Air Density Foam Separator is cleanly separated foam waste and plastic/metal fractions, ready for efficient recycling.
- **Justification:** Separates foam from plastic & metal waste. Enhances e-waste recycling efficiency. Reduces contamination for better material recovery Eco-friendly & cost-effective solution.



**\*All these machines are customizable based on customer needs.**

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#### SPECIFICATIONS

**Machine Dimensions:** 25ft x 13ft x 8ft  
(L x H x W)

**Automation Grade:** Fully Automatic

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## SAK AUTOMATION PRIVATE LIMITED

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### OUR MISSION

“To revolutionize e-waste management with innovative, top-tier recycling machines that drive sustainability and empower India’s recycling industry.”