



# INDUSTRIAL SUPPLIES AND SOLUTIONS COMPANY

An ISO 9001:2015 Certified Company



*“Turning your Scrap into Green Resource”*

[www.isscindia.com](http://www.isscindia.com)





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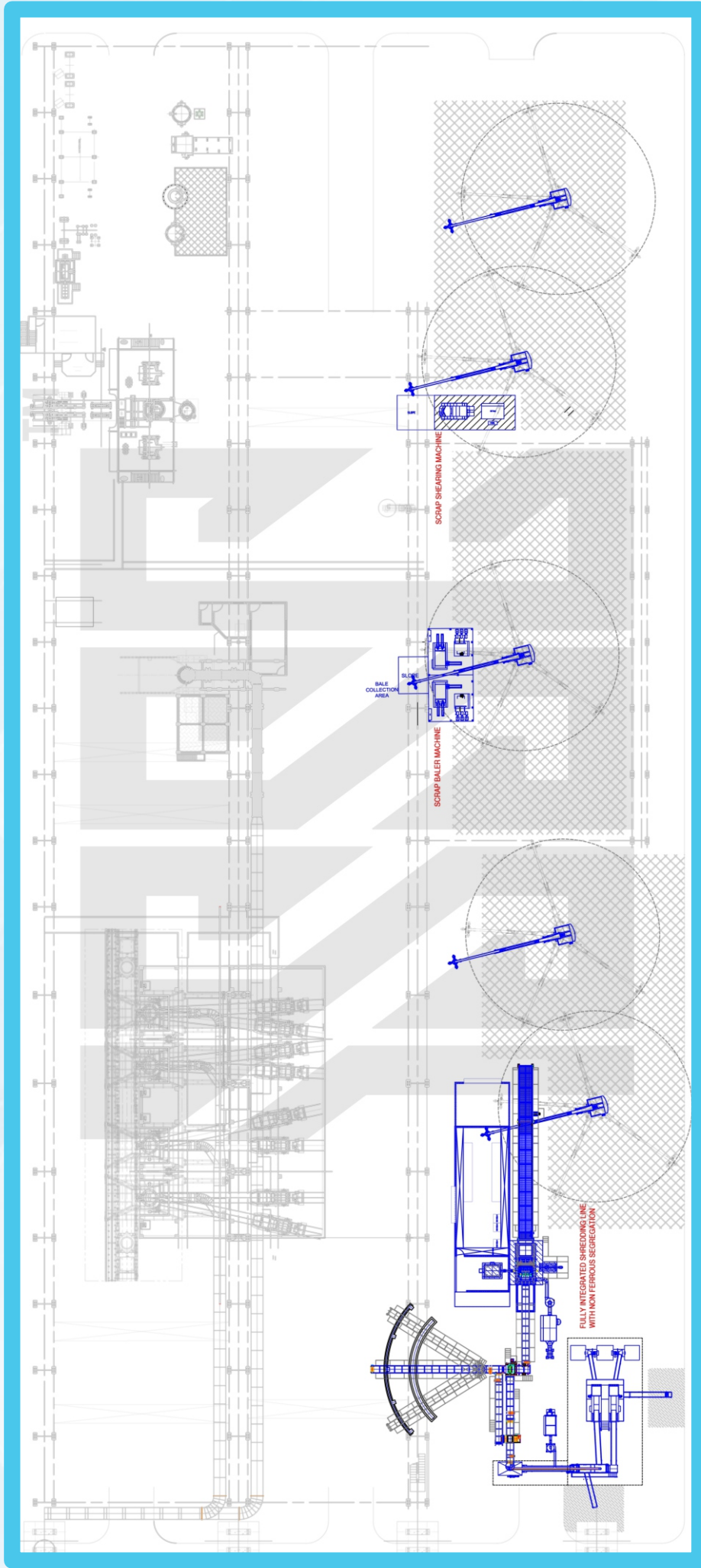
Industrial Supplies and Solutions Company is an integrative company providing complete end to end recycling solutions by offering a comprehensive range of equipment that are manufactured in compliance with industrial standards and norms.

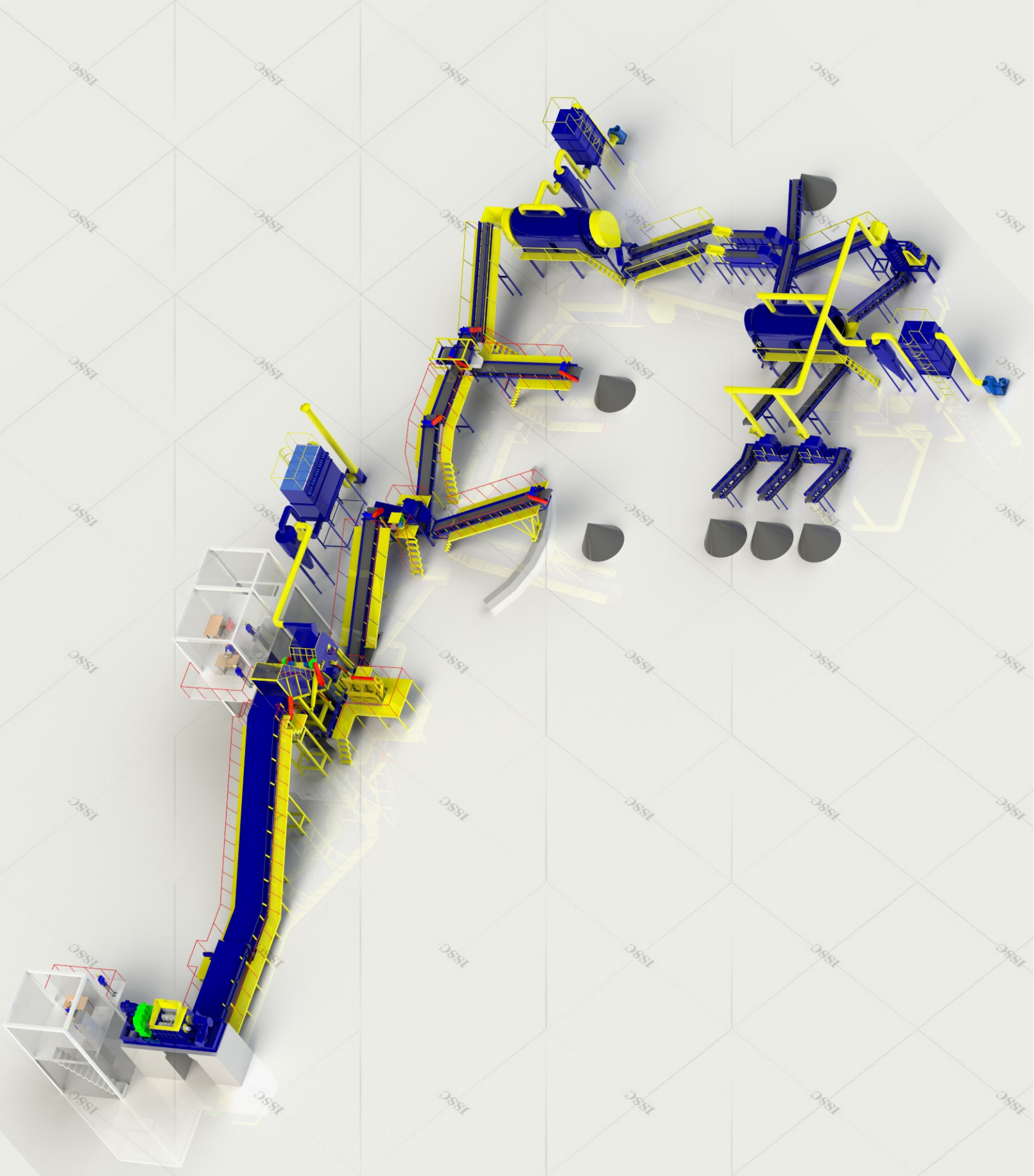
With several installations across India, Middle east and Africa, ISSC is one of world's leading engineering company for Integrated Scrap Processing Solutions.

### **Equipment Range**

- ◆ Turnkey Recycling Solutions of 0.5 million tons per annum and above
- ◆ Fully Integrated Automatic Shredding Lines
- ◆ Shearing Machines
- ◆ Scrap Baling Machines
- ◆ Non Ferrous Processing and Sorting lines
- ◆ Tire Shredding Lines
- ◆ Pyrolysis Tire Wire Processing Lines
- ◆ Lithium Battery Processing Line
- ◆ Scrap Handling (Stationary Rotating Cranes, Grabs, Magnets)
- ◆ Slag Processing Lines
- ◆ Copper Mould Tubes

# 0.5 Million Tons Per Annum Integrated Scrap Recycling Yard





## **FULLY INTEGRATED AUTOMATIC SHREDDING LINE WITH NON FERROUS SORTING**

# FULLY INTEGRATED AUTOMATIC SHREDDING LINES

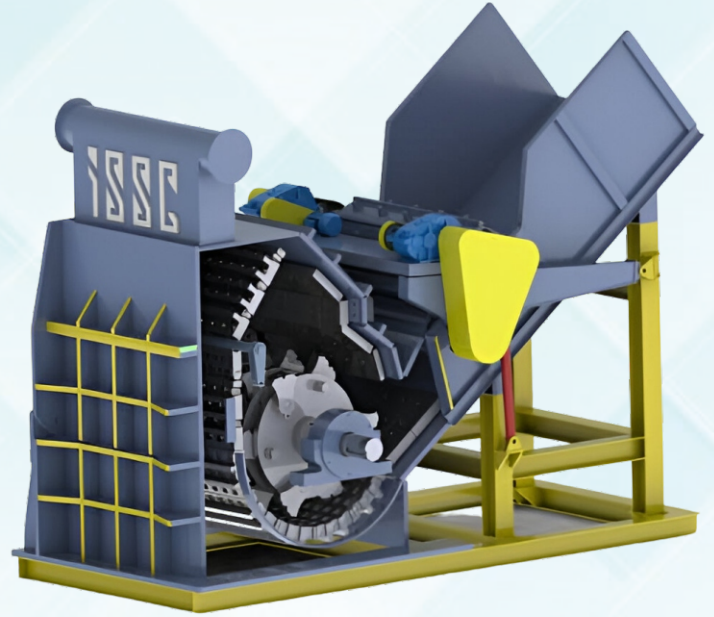
- ◆ Fully Integrated Automatic Shredding Lines
- ◆ Integrated ELV Processing Lines
- ◆ Non Ferrous Sorting Line
- ◆ Double Shaft Shredders
- ◆ Hammer Mill Crushers
- ◆ Pyrolysis Tire Wire Shredding and Processing Line
- ◆ Tire Shredding Line
- ◆ Aluminum Shredding Lines
- ◆ Motor & Engine Shredding Lines
- ◆ Slag Crushing and Processing Lines
- ◆ Lithium Battery Processing Line

An integrated shredding line is a fully automated system that combines multiple processing steps for waste materials, from initial shredding to final sorting and separation, into a single, streamlined line. Unlike standalone units, these systems handle everything from bulky scrap metal and plastic to e-waste often incorporating components like heavy-duty shredders, conveyor systems, magnetic and eddy current separators, and optical sorters to efficiently process large volumes of waste into homogeneous, valuable materials ready for recycling or further reprocessing.

## BENEFITS OF INTEGRATED SHREDDING LINES:

- ◆ Automates multiple processes, leading to high-volume processing and consistent output.
- ◆ Reduced Operational Costs
- ◆ High Purity and Recovery
- ◆ Maximize the recovery of valuable materials like ferrous and non-ferrous metals.
- ◆ Integrated dust control and secure containment improve the working environment

# HAMMERMILL SHREDDERS

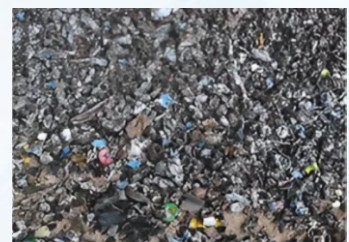
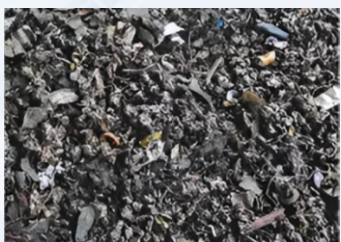


Hammermill Shredders / Crushers Line are the ideal solution for a wide range of ferrous and non ferrous applications in scrap yards and steel works. It is equipped with Hammer mill, a powerful motor, fully automatic electric control, hydraulic drive, sorting line, monitoring system, etc.

## FEATURE

- ◆ Ultra-high crushing efficiency
- ◆ Perfect finished granules
- ◆ Stable operation ability
- ◆ Advanced control system

<b>Output Capacity</b>	5 tons per hour and above
<b>Output Size</b>	50mm and above
<b>Control</b>	PLC





## **Robust Design | Reliable Performance | Smart Safety Features**

Engineered for heavy-duty industrial applications, our Double Shaft Shredder is built to handle a wide range of materials with precision and power. Designed with high-torque gear system, it ensures efficient size reduction and long-term durability

### **KEY FEATURES:**

- ◆ High-strength, wear-resistant blades for consistent shredding performance.
- ◆ **Hexagonal / Octagonal Shaft Design** – Ensures superior torque transmission and load-bearing capacity.
- ◆ **Double Row Self-Aligning Roller Bearings** – Fitted with locking sleeves for high stability, reduced vibration, and extended machine life.
- ◆ **Smart Protection System** – Automatically reverses operation in case of electric current overload, with an emergency stop mechanism for enhanced operator safety.

# CONTAINER / CONTINUOUS SHEAR



**Output Capacity**

4 tons to 30 tons per hour

**Shearing Force**

315 tons to 1500 Tons

**Hydraulic**

Turbo Hydraulic

**Feeding**

Hopper

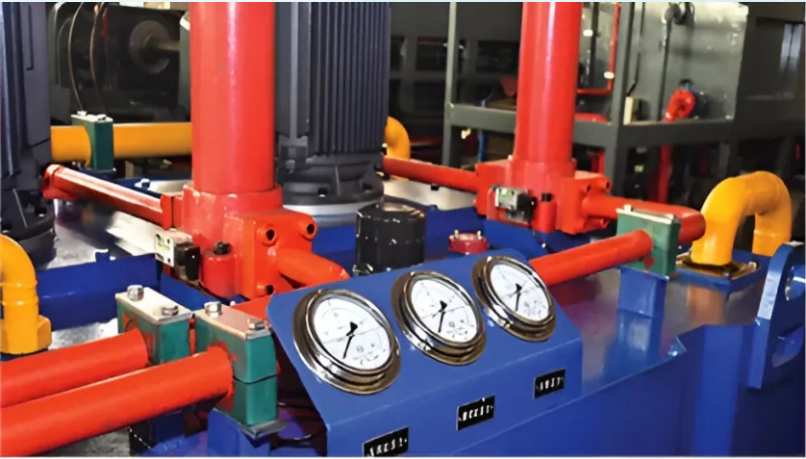
**Output Size**

400mm to 500mm

**Control**

PLC Automatic + Touch Screen + Panel +  
Remote Control

# GANTRY SHEAR

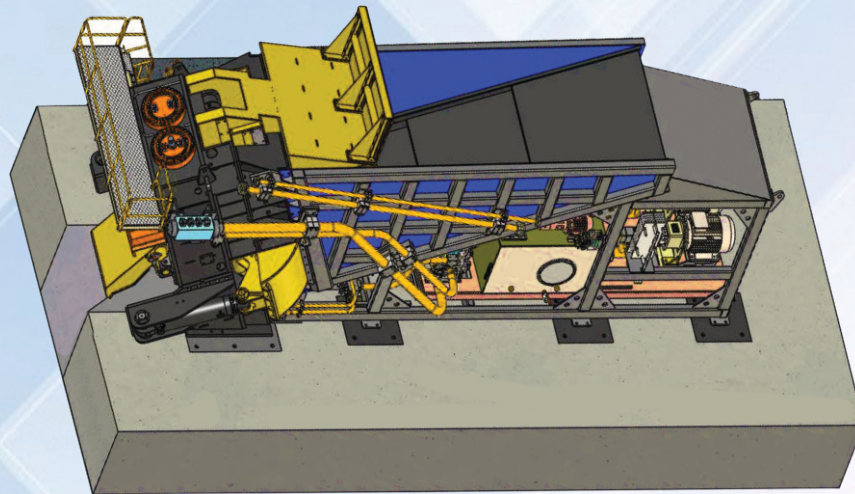


Gantry shear machine is especially designed for heavy metal scraps (common metal, structure steel, round steel, rebar) HMS scrap / automobile scrap car etc. It adopts hydraulic drive, simple operation & easy maintenance.

- ◆ Hardox anti-wear plates
- ◆ Huge feeding box to accommodate large scrap and increase production output
- ◆ High quality heavy duty cylinders (Hardened and chrome-coated piston rods, special honed pipes)
- ◆ Options of Hydraulic drive, manual valve operation, or automatic running by remote control induction

<b>Max Shearing / Cutting Force</b>	315 Tons to 2000 Tons
<b>Press Box / Feeding Box Length</b>	5000 mm to 10000 mm
<b>Output Capacity</b>	5 tons per hour to 40 tons per hour
<b>Blade Length (mm)</b>	1400 mm to 2500 mm

# INCLINED SHEARS



- Gravity Fed, Automatic, Versatile Scrap Processing Machine
- Hydraulically Controlled Side and Top Compression
- High Capacity with Continuous Scrap Feeding

# HYDRAULIC BOX SHEAR MACHINE



<b>Output Capacity</b>	4 tons to 30 tons per hour
<b>Shearing Force</b>	400 tons onwards
<b>Output Size</b>	400mm X 400mm onwards
<b>Control</b>	PLC Automatic + Touch Screen + Panel + Remote Control

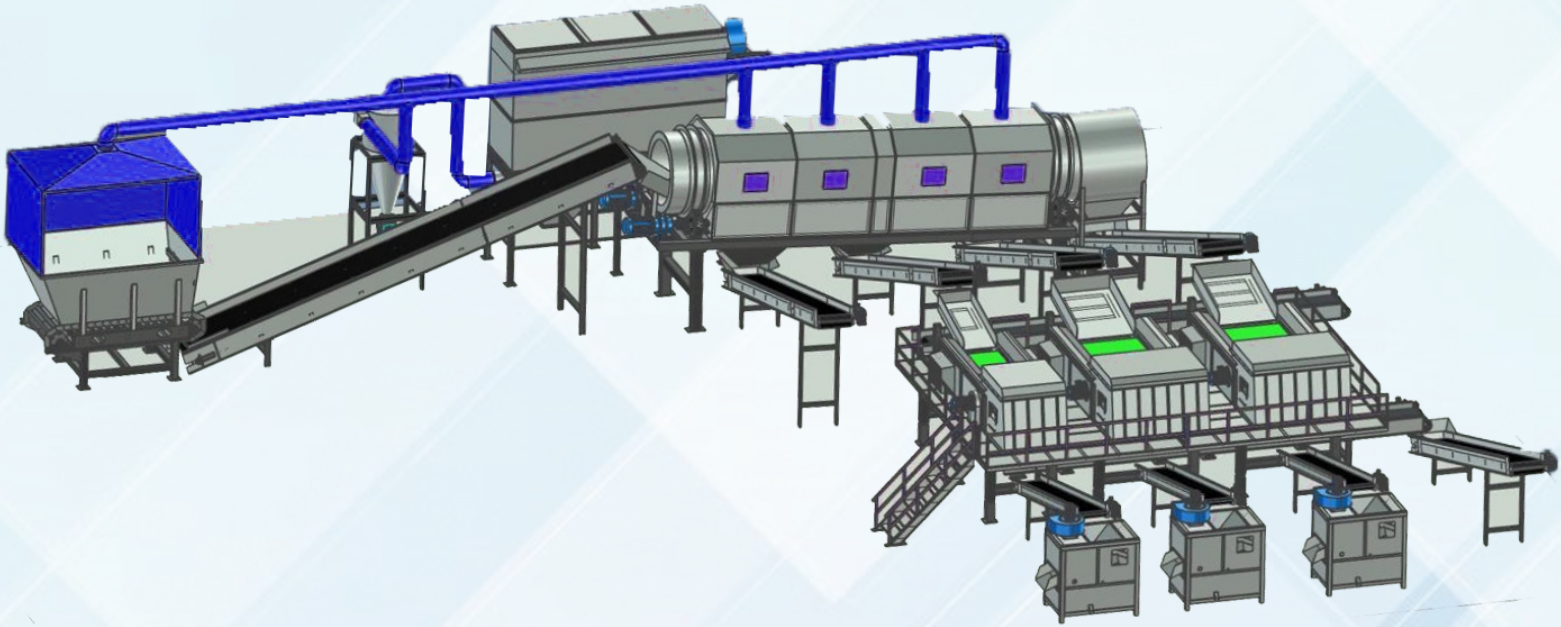
# HYDRAULIC SCRAP BALER MACHINE



<b>Bale Size In mm</b>	250 X 250 onwards	Parameters Customizable as per client requirement
<b>Bale Weight</b>	“Upto 2 Tons Bale”	
<b>Operation</b>	Continuous or Batch	
<b>Control</b>	Semi or Fully Automatic with Remote Control	



# NON-FERROUS SORTING LINE



Separation lines for nonferrous metals are positioned downstream of a ferrous separation plant and play a key role in effectively separating metals such as aluminum, copper, brass, and other light alloys. The careful separation of nonferrous metals not only helps reduce the environmental impact of waste, but also represents a significant economic opportunity due to the intrinsic value of these materials

## ◆ Conveyor Belt and Sorting Systems

## ◆ Trommel

## ◆ Eddy Current Separators

## ◆ X-Ray and Optical Sensors

## Gravity / Air Separators



# PYROLYSIS TIRE WIRE SHREDDING LINE

Before



After



## CLEANER OUTPUT | HIGHER YIELD | PROVEN TECHNOLOGY

Transform messy pyrolysis tire wire into clean, reusable metal with our advanced shredding solution. ISSC Pyrolysis Tire Wire Shredding Line is specially engineered to convert bulky, high sulphur tire wires into clean, sulphur free, contamination-free high yield shredded tire wire.

### KEY FEATURES & BENEFITS:

- ◆ Proven design and installations for Pyrolysis Tire Wire Shredding Line
- ◆ Reduction in Sulphur
- ◆ Complete dry system for processing tire wire
- ◆ Cyclone-based dust collection system
- ◆ Increase in yield

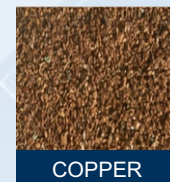
# LITHIUM BATTERY RECYCLING PLANT



The lithium battery recycling plant is used for dismantling and recycling the Soft package battery, cellphone battery, Shell batter Cylindrical battery etc. Our company uses an environmentally-friendly physical separation process to efficiently separate and recover waste lithium batteries based on their structural characteristics. The plant yields valuable final products such as graphite powder, cobalt acid lithium aluminum, and copper.

- ◆ **Application range** : Disposalh of waste power lithium battery, mobile phone lithium battery, electrode.
- ◆ Copper and aluminum recovery (by weight):  $\geq 98\%$
- ◆ Positive and negative material recovery (by weight%):  $\geq 99\%$
- ◆ Iron recovery (by weight):  $\geq 99\%$
- ◆ **Applied materials**: laptop battery, cell phone lithium battery, pouch cell, cylindrical battery, lithium cell, li-ion battery, lithium-ion battery etc.
- ◆ **Finished product**: aluminum, copper, lithium, lithium cobalt oxide, anode materialis graphite

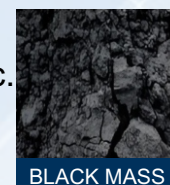
## OUTPUT MATERIAL



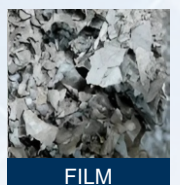
COPPER



ALUMINUM



BLACK MASS



FILM

# TIRE RECYCLING LINE

**Ground Rubber:** It is produced by grinding the scrap tyres into small pieces of varied sizes. The most common applications include landscaping mulch, crumb rubber modified bitumen (CRMB), rubber products, sport surface and floor mats

**Tyre-Derived Fuel (TDF):** It is a cleaner and an attractive alternative to coal. It is widely used in pulp and papermills, electric utility boilers and cement kilns.

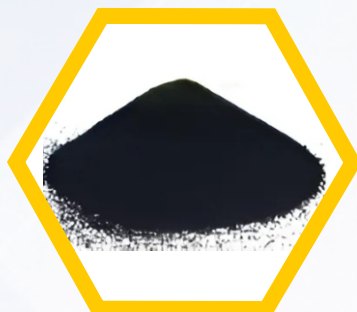
**Civil Engineering:** The civil industry is increasingly choosing shredded tyres as a replacement for clay or sand in road and landfill construction, septic tank making, landfill cover and other construction works.

**Tire recycling way:** If you want tire chips (TDF), you can choose our double shaft tire TDF shredder, the shredding size is 50-300mm; If you want rubber granules, you can choose our tire rubber rasper crusher machine, you can get 10-15mm rubber granules, and separate the rubber and steel wire; you can choose our rubber mill pulverizer, the grinding fineness is 20-300mesh.

## RAW MATERIAL (ALL TYPES OF TIRES)



## FINISHED MATERIAL (WIRE, CHIPS, POWDER, TDF, GRANULES, ETC.)



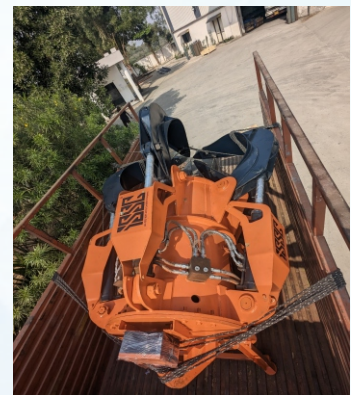
# SCRAP HANDLING EQUIPMENT



ISSC offers state-of-the-art scrap handling solutions designed to meet the requirements of various industries. Our products are equipped with advanced features that enhance operators' productivity, safety, and comfort, making them an essential tool for efficient material handling.

## KEY PRODUCTS

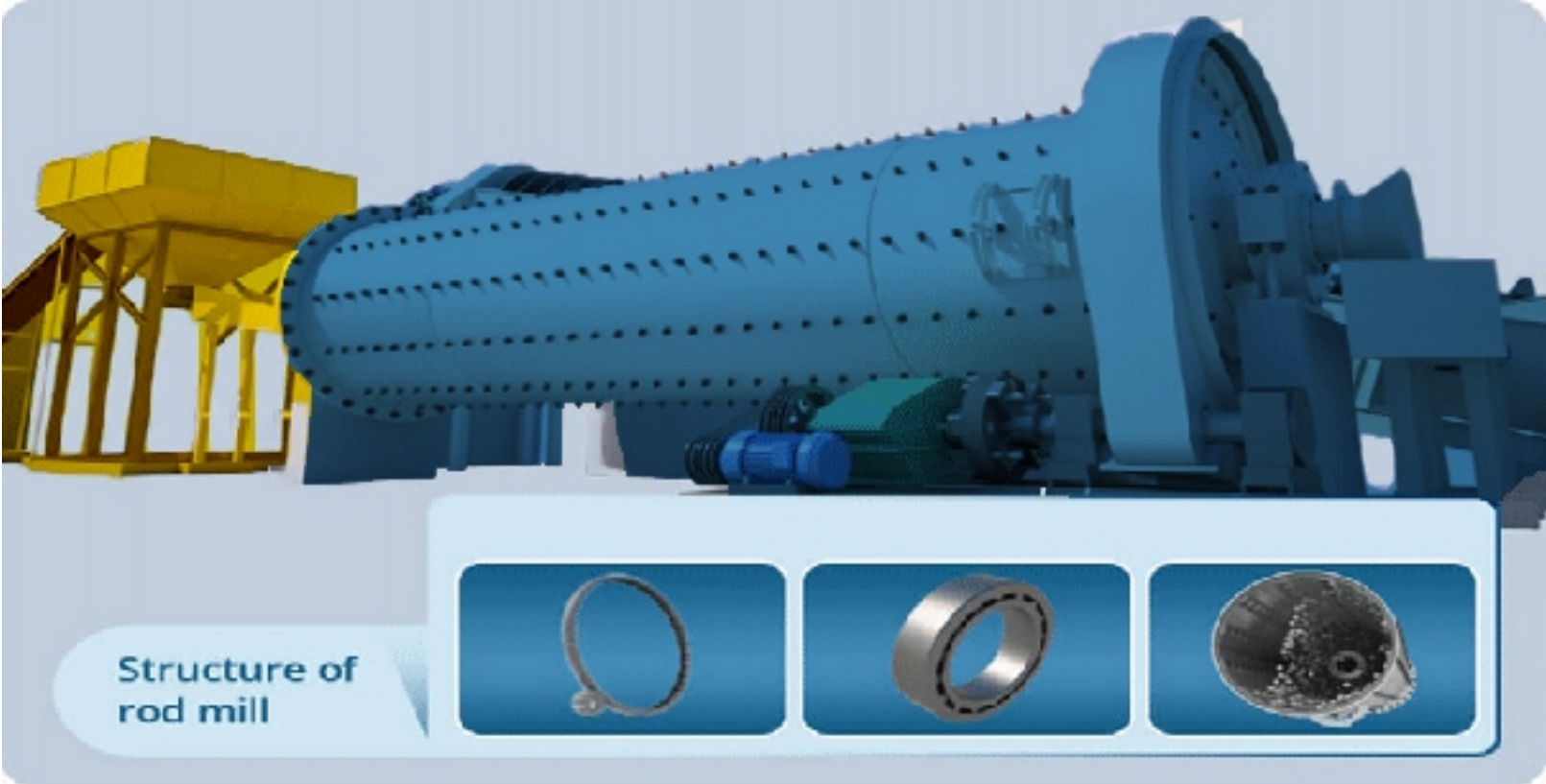
- ◆ Stationary Rotating Cranes
- ◆ Orange Peel Grab Bucket
- ◆ Clamshell Grab Bucket
- ◆ Excavator Grab Bucket
- ◆ Circular Lifting Magnets
- ◆ Rectangular Lifting Magnets



## KEY FEATURES

- ◆ Versatile Attachments
- ◆ Extended Reach
- ◆ Electro-Hydraulic Drives
- ◆ Low Operating Costs
- ◆ Vibration-Free Operation

# SLAG PROCESSING (BALL & ROD MILL)



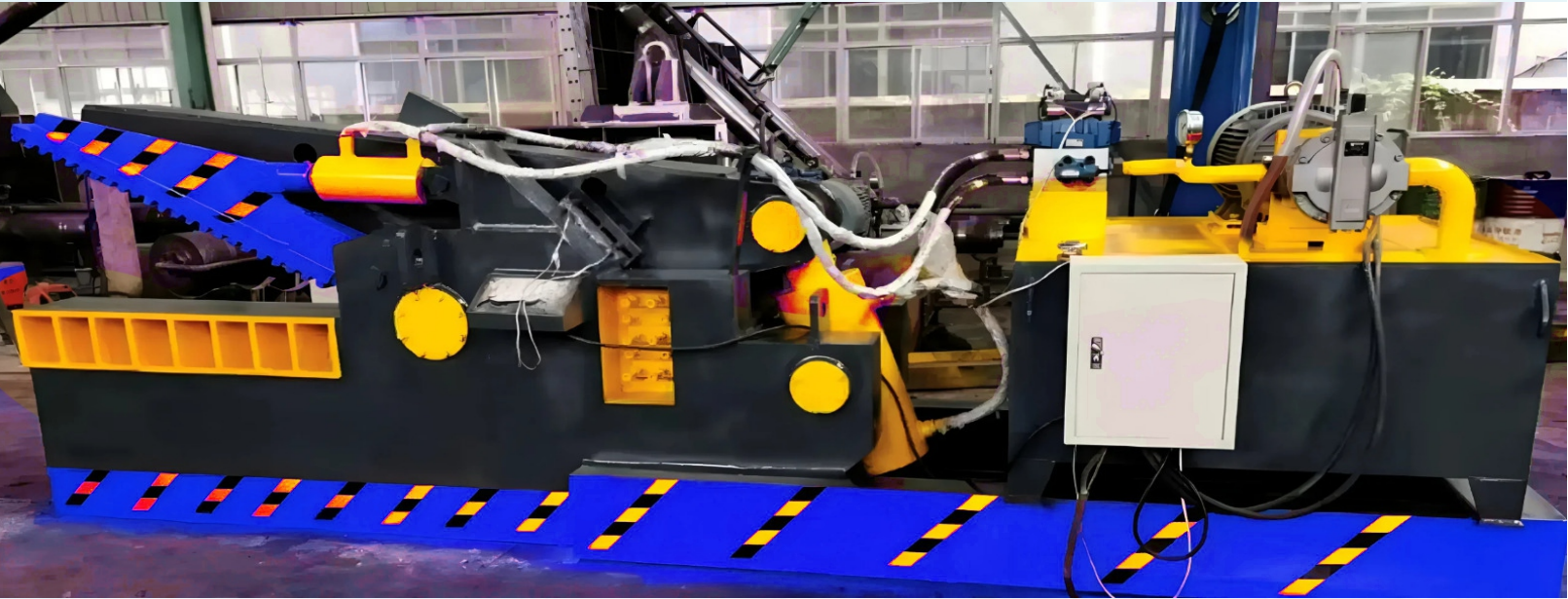
When the rod rotates and rises along with the liner, the coarse particles are sandwiched between them, allowing the fine particles to pass through the gap of rods, which is conducive to crushing coarse particles, so the coarse particles are concentrated in the place where the grinding medium hits.



## Advantages:

- ◆ Product with uniform particle size, lighter crushing, and less grit and slime.
- ◆ Good sealing, avoiding dust and noise pollution to the environment, green and environmental protection.
- ◆ Simple configuration and low cost, which can save investment in dust removal equipment.
- ◆ The energy consumption of the equipment is low, saving users a lot of expenses.

# ALLIGATOR SHEAR



## ADVANTAGES:

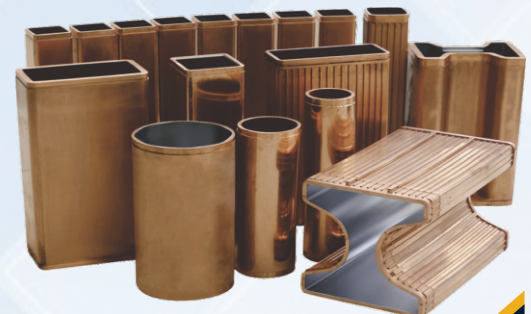
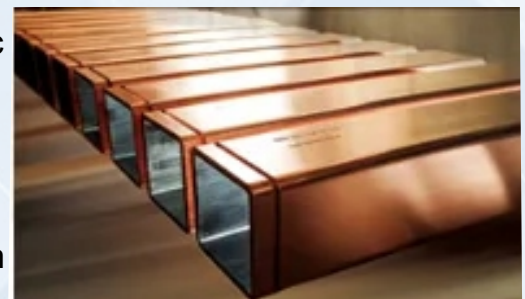
- Can be operated single and continuously.
- Easy to operate and maintain.
- Can work with high speed and feed the scrap metal easily

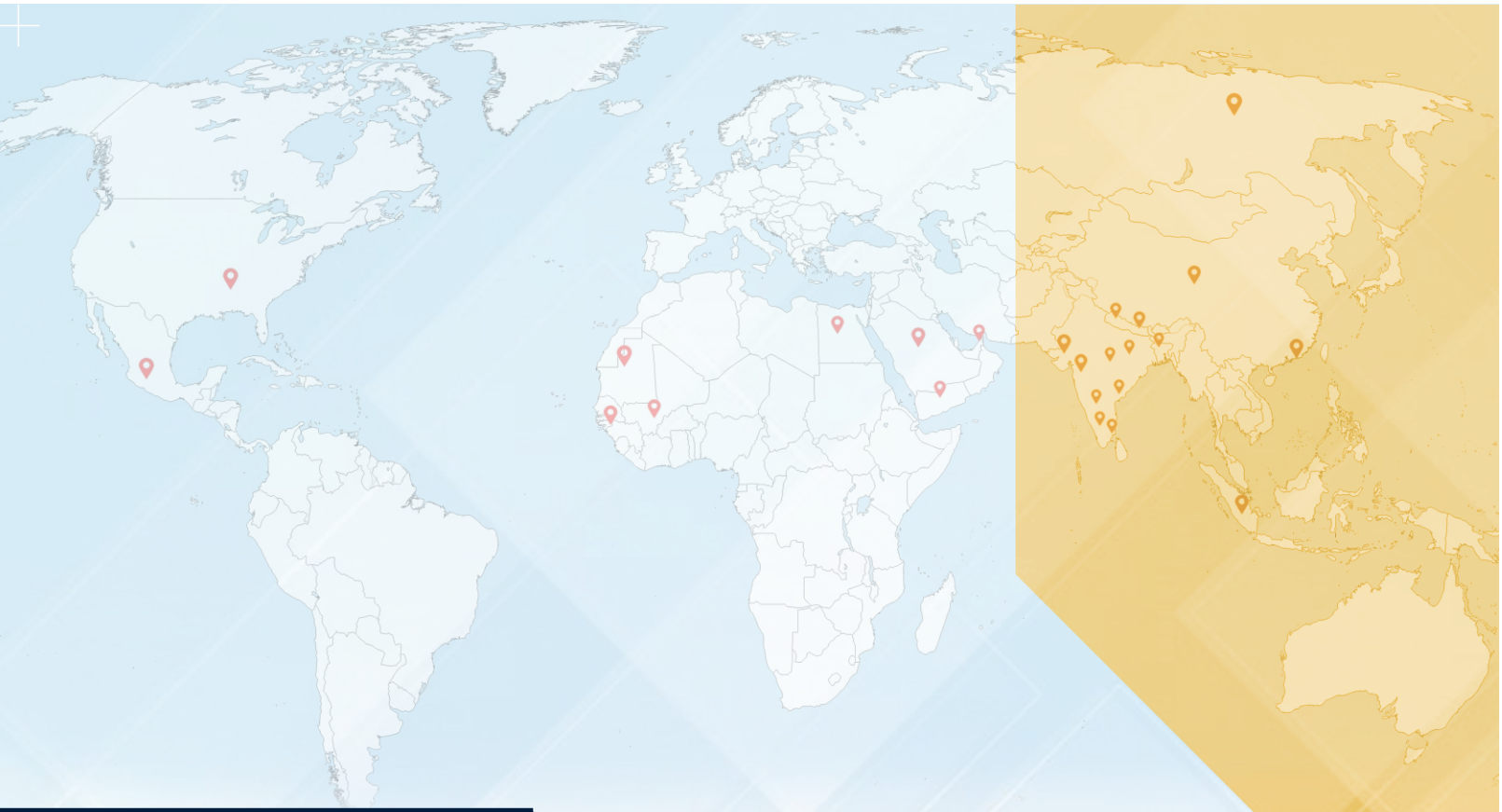
## APPLICATION:

The alligator shearing machine is widely used in the scrap metal recycling industry which is with the small volume and high cutting speed.

# COPPER MOULD TUBES

- ◆ Material : Cu DHP, Cu Ag, Cu Cr Zr, CuNiBe, CuCoNiBe alloy, etc
- ◆ Coating : Chrome, Ni-Cr, Ni-Fe, Ni, NiCo, Ceramic coating etc with various shapes
- ◆ Length : 700mm – 1000 mm Billet mould tube : 60 mm x 60 mm to 700 mm x 700 mm
- ◆ Bloom mould tube : 135 mm x 430 mm to 550 mm x 720 mm  
Round mould tube : 80 mm to 1000 mm
- ◆ Plates : 120 mm X 850 mm to 3600 mm X 1000 mm





## INDUSTRIAL SUPPLIES AND SOLUTIONS COMPANY

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