

RECYCLING MACHINERY

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MIZAR





**Quality
Certificates**





About Us

Mizar Makine is a Turkish company which is specialized in the design and production of recycling technologies. Our factory, in compliance with current legislation, has mass production band, modern machinery with latest technology. Working for a cleaner environment; is as important as economic gain for grinding and recycling of various and valuable materials for us. We are working for a cleaner environment and economic benefit with grinding and recycling a wide variety of valuable materials from copper, aluminum and differentiated waste etc.

As Mizar Machine; we produce a wide range of guaranteed machines with excellent design and maintenance services, maintain high quality standards; support sectoral developments and offer the most advanced solutions. We are designing machines suitable for market demands with expert staff, quality service and professional business approach. We are constantly improving, developing our equipment, looking for new ways for more modern and efficient recycling.

Our vision is to produce innovative, functional, profitable, modern machines in the recycling sector and make them useful for the benefit of society.

Our mission is to work for a clean and livable environment by supporting the recycling of raw materials, producing modern and technological machines that keep operators' health and business environment safe.

Why Mizar?

- Quality materials,
- Aftersales service,
- Fair prices,
- Quick response,
- Not only one-time seller, but also your solution partner with an honest trade perspective,
- Experienced team,
- Standing behind the goods,
- Following the last technology with his engineers,
- R&D studies for renovating the technology,
- Coordination with customers and suppliers,

Shortly, your money's worth.



Lines

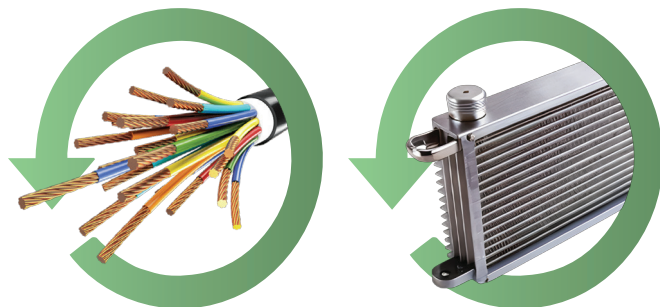


Compact Series

The Compact Series Cable Recycling machines offer high efficiency in the recycling of cables of different diameters and materials. By breaking down cables, they separate the metal and plastic components inside. The CMT models feature an additional Turbo Mill. The turbo mill in the system is specifically designed to completely separate fine copper wires, achieving higher purity in recycling.

Thanks to its compact structure, it can be easily installed in facilities with limited space, prioritizing energy efficiency and reducing operating costs.

Technical Specification



	CMP	CMT
FEATURE	VALUE	VALUE
POWER	11 kW	13 kW
GRANULATOR MOTOR	7.5 kW	7.5 kW
GRANULATOR BLADE	3+2	3+2
LENGTH	1300 mm	1300 mm
WIDTH	1500 mm	1500 mm
HEIGHT	2140 mm	2140 mm
WEIGHT	1300 kg	1380 kg



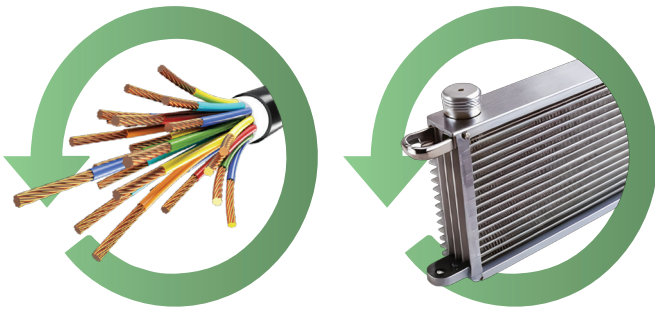
Lines



Classic Series

The CUA Series efficiently separates the internal and external components of cables for recycling. The integrated system, consisting of granulation, separation, and fan units, effectively shreds and separates 99.6% of cable components. Materials can be fed manually via a conveyor belt or automatically with the SSH Series Pre-Shredding Machine equipped with smart PLC software. Its compact structure and user-friendly PLC touch-screen control panel make management easy. The CUA Series enhances durability with high-quality components and is CE-certified. Available in three models: CUA S3, CUA M3, and CUA L3.

Technical Specification



	CUA S3	CUA M3	CUA L3
FEATURE	VALUE	VALUE	VALUE
POWER	40 KW	80 KW	120 KW
GRANULATOR MOTOR	30 KW	55 KW	90 KW
GRANULATOR BLADE	3+2	40+4	60+6
LENGTH	2500 mm	5280 mm	6270 mm
WIDTH	2300 mm	2000 mm	2250 mm
HEIGHT	2450 mm	2860 mm	3200 mm
WEIGHT	2700 kg	5000 kg	6500 kg



Lines

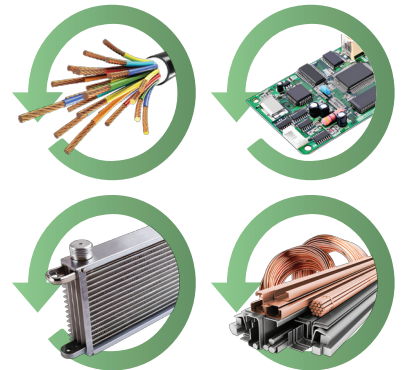


Pro Series

Our Pro Series showcases cutting-edge recycling technology with a variety of independent machines designed for efficient material processing. This series features high-performance granulators, densimetric separators, and air cyclones, each optimized for enhanced recycling.

The granulators ensure quick and effective size reduction, while the densimetric separators classify materials based on density for improved output purity. The air cyclones efficiently separate lighter materials from heavier ones, optimizing the recycling process.

What distinguishes the Pro Series from the CUA Series is the independence of each machine, allowing for greater flexibility in production lines. With a focus on reliability and performance, the Pro Series is the perfect solution for companies aiming to boost their recycling efficiency and throughput.



Technical Specification

PRP S1		PRP M1		PRP L1	
FEATURE	VALUE	FEATURE	VALUE	FEATURE	VALUE
SSH S1 - SINGLE SHAFT SHREDDER	17 KW	SSH M1 - SINGLE SHAFT SHREDDER	35 KW	SSH L1 - SINGLE SHAFT SHREDDER	50 KW
FGR S1 - FINE GRANULATOR	15 KW	FGR M1 - FINE GRANULATOR	30 KW	FGR L1 - FINE GRANULATOR	45 KW
ZZS A1 - ZIGZAG SEPARATOR	17 KW	ZZS A1 - ZIGZAG SEPARATOR	17 KW	ZZS A1 - ZIGZAG SEPARATOR	17 KW
TRM S1 - TURBO MILL	15 KW	TRM M1 - TURBO MILL	30 KW	TRM L1 - TURBO MILL	45 KW
DES S1 - DENSIMETRIC SEPARATOR	15 KW	DES M1 - DENSIMETRIC SEPARATOR	20 KW	DES L1 - DENSIMETRIC SEPARATOR	27 KW



Shredders



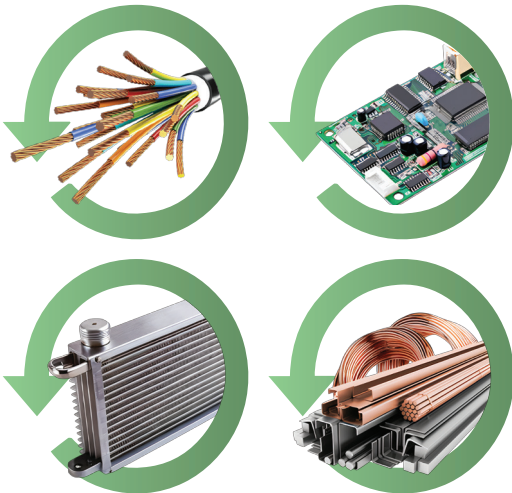
Single Shaft Shredders

The SSH Series shredders are designed to efficiently shred various wastes such as cables, radiators, electronic boards, wood, plastics, and tires using customized blades on a single rotating shaft. A programmable hydraulic pusher ensures continuous feeding of the rotor. In case of a jam, the rotor reverses direction, allowing the cutting process to continue uninterrupted.

The size of the shredded material is determined by a screen located beneath the rotor. The material stays in the shredder until it reaches the desired size and then exits through the screen.

SSH Series shredders use world-class brands for complementary components equivalent to our quality standards. Depending on production capacity, the SSH S1, SSH M1, and SSH L1 models are CE-certified

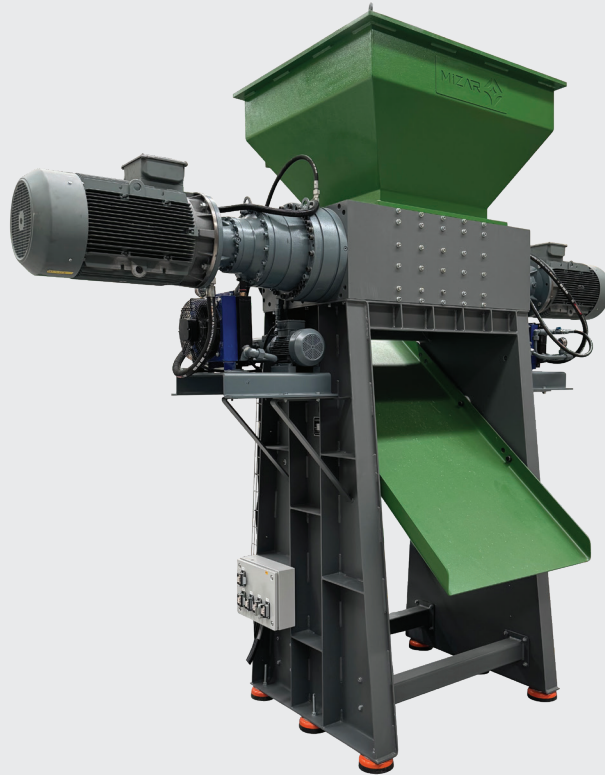
Technical Specification



	SSH S1	SSH M1	SSH L1
FEATURE	VALUE	VALUE	VALUE
POWER	17 kW	35 kW	50 kW
ROTOR DIAMETER	240 mm	350 mm	350 mm
ROTOR LENGTH	430 mm	620 mm	920 mm
BLADE QUANTITY	27+20	24+18	36+26
BLADE DIMENSION	30x30mm	50x50mm	50x50mm
LENGHT	1400 mm	1460 mm	1850 mm
WIDTH	900 mm	1950 mm	2670 mm
HEIGHT	1200 mm	1800 mm	2170 mm
WEIGHT	850 kg	2800 kg	4750 kg



Shredders



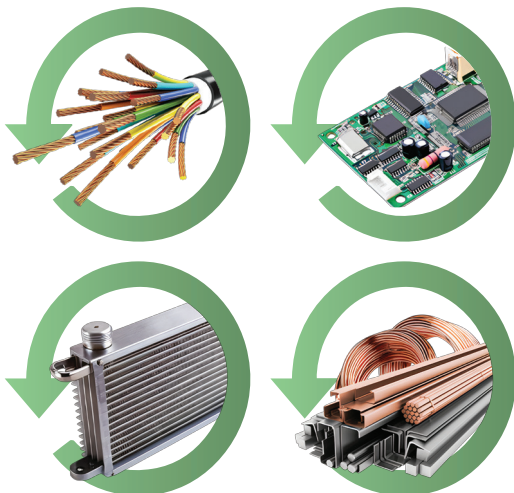
Double Shaft Shredder

DSH Series Shredders are designed to shred large volumes of durable materials using customized blades mounted on two parallel shafts. The rotors move independently, driven by a planetary gearbox powered by an electric motor.

The double-shaft rotor offers an effective solution for recycling metal scraps, plastics, wood, and other tough materials. Its strong structure and synchronized dual-shaft blades provide long-lasting, reliable performance even in heavy-duty applications.

Like the SSH Series, DSH Series shredders use world-class brands for complementary components, maintaining the same high-quality standards. Models are available in DSH S1, DSH M1, and DSH L1 versions, all CE-certified.

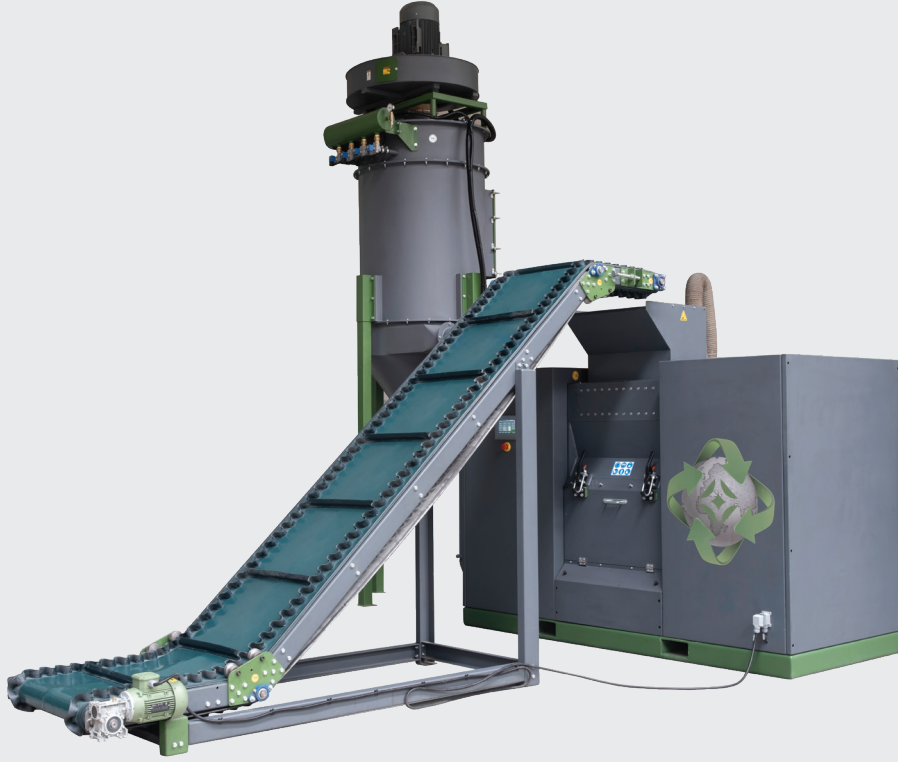
Technical Specification



	DSH S1	DSH M1	DSH L1
FEATURE	VALUE	VALUE	VALUE
POWER	2X15 kW	2X30 kW	2X45 kW
ROTOR LENGTH	520 mm	770 mm	1080 mm
BLADE THICKNESS	45 mm	75 mm	75 mm
LENGTH	2620 mm	3860 mm	4400 mm
WIDTH	1050 mm	1200 mm	1440 mm
HEIGHT	2700 mm	3000 mm	3000 mm
WEIGHT	2600 kg	5500 kg	6500 kg



Granulators



Multi Destroyer

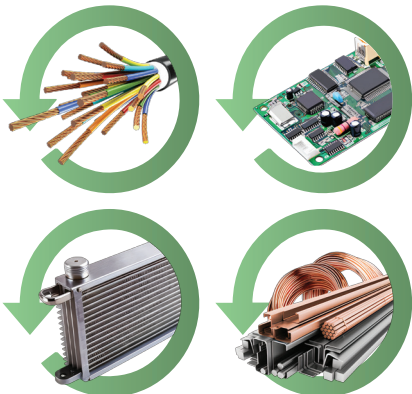
The Multi Destroyer is a machine specially designed for crushing PCB (Printed Circuit Board). The double-shaft shredder located at the top effectively breaks down PCB and feeds them into the granulator below. The granulator converts the shredded material into fine granules, making it easier to recycle and reuse.

The double-shaft shredder uses special blades made of wear-resistant steel, offering maximum durability and performance. The feed rate of the material can be easily adjusted via a user-friendly control panel. The granulator is optimized for high efficiency, ensuring the final product is of the desired size.

The Multi Destroyer uses a jet filter to minimize dust formation, ensuring a cleaner and safer working environment. This feature is especially important in sensitive recycling processes.

The Multi Destroyer is an ideal solution for PCB recycling, meeting industry demands with its high performance. Its superior engineering design ensures the machine is long-lasting and durable.

Technical Specification



MUD A1	
FEATURE	VALUE
SHREDDER POWER	2X7.5 KW
GRANULATOR POWER	22 KW
LENGTH	2500 mm
WIDTH	1200 mm
HEIGHT	2080 mm
WEIGHT	3700 kg



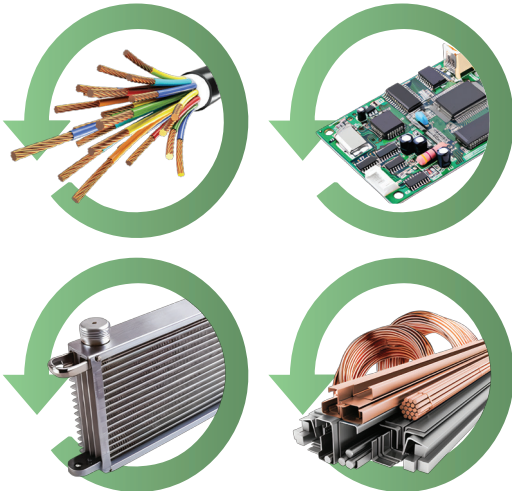
Granulators



Pre Granulators

Machines used at the initial stage of the recycling process to pre-shred large-volume materials, specifically designed for reducing the size of hard materials such as cables, plastics, and metals. Offering high durability and efficiency, these machines prepare the material for subsequent separation and granulation processes. With energy-saving motors and a user-friendly design, pre-granulators provide continuous and reliable performance in production lines.

Technical Specification



	PGR S1	PGR M1	PGR L1
FEATURE	VALUE	VALUE	VALUE
POWER	30 KW	55 KW	75 KW
ROTOR DIAMETER	500 mm	500 mm	500 mm
ROTOR LENGTH	380 mm	510 mm	1020 mm
BLADE	7+3	14+6	21+9
LENGTH	1050 mm	1260 mm	1800 mm
WIDTH	1620 mm	1970 mm	2000 mm
HEIGHT	2200 mm	2550 mm	2550 mm
WEIGHT	2000 kg	3200 kg	4300 kg



Granulators



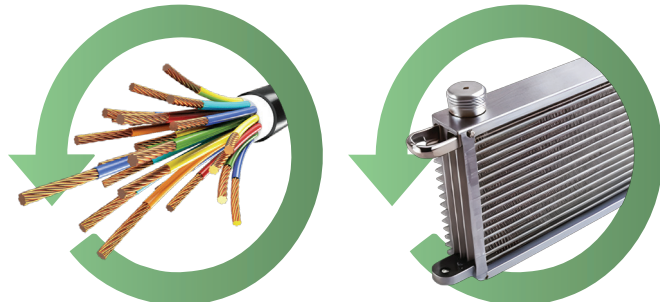
Fine Granulators

Mizar Machine's granulators provide high performance in industrial waste processing and recycling processes. These granulators are designed to efficiently grind and granulate various materials. With superior crushing capacity and fast processing times, they can effectively handle challenging materials such as metal cables, plastics, and electronic waste. The use of durable materials and wear-resistant blades ensures long-lasting and reliable performance. Prioritizing energy efficiency, they deliver high processing efficiency with low energy consumption, reducing energy costs.

The PLC-controlled automation systems ensure precise and easy management of the machine, with user-friendly interfaces and advanced control systems that allow continuous performance monitoring. Safety is a priority, with emergency stop systems and safety applications ensuring a secure working environment.

Mizar Machine's granulators offer a wide range of applications, from recycling lines to scrap waste management, making them an excellent solution for your industrial recycling needs.

Technical Specification



	FGR S1	FGR M1	FGR L1
FEATURE	VALUE	VALUE	VALUE
POWER	15 KW	30 KW	45 KW
ROTOR DIAMETER	350 mm	350 mm	350 mm
ROTOR LENGTH	400 mm	800 mm	1200 mm
BLADE	7+2	14+4	21+6
LENGTH	800 mm	1200 mm	1600 mm
WIDTH	1400 mm	1480 mm	1580 mm
HEIGHT	2000 mm	2000 mm	2000 mm
WEIGHT	1400 kg	2200 kg	2800 kg



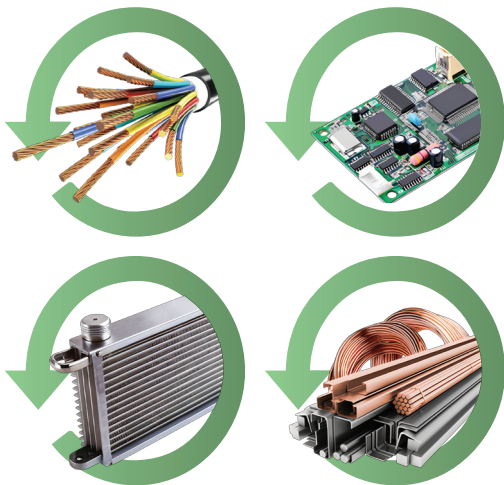
Mills



Turbo Mill

The TRM Series Turbo Mills is an advanced grinding system used primarily in the recycling of electronic boards and cables for the effective crushing and grinding of these materials. Plastics, metals, and other components found in electronic boards and cables are reduced to fine particles and transformed into recyclable raw materials thanks to this machine. With its high-speed rotors, the Turbo Mill carries out the grinding process, reducing materials to micron sizes through friction and impact forces.

Technical Specification



	TRM S1	TRM M1	TRM L1
FEATURE	VALUE	VALUE	VALUE
POWER	15 KW	30 KW	45 KW
ROTOR DIAMETER	380 mm	500 mm	620 mm
LENGTH	1420 mm	1680 mm	1790 mm
WIDTH	700 mm	820 mm	940 mm
HEIGHT	700 mm	920 mm	1040 mm
WEIGHT	660 kg	870 kg	1000 kg



Mills



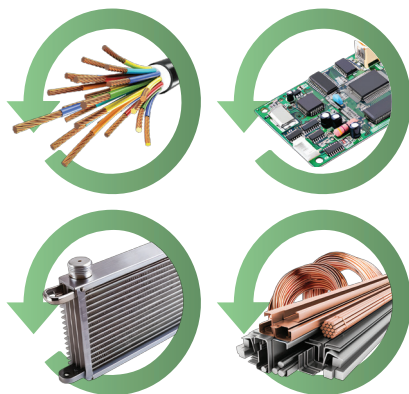
Hammer Mill

The Hammer Mill is an innovative and robust grinding machine designed for various applications in the recycling and processing industries. Engineered for efficiency, this mill utilizes high-speed rotating hammers to crush, grind, and pulverize a wide range of materials, including plastics, wood, and agricultural products.

Its versatile design allows for easy adjustments to accommodate different materials and desired particle sizes, making it suitable for a variety of recycling operations. The Hammer Mill's durable construction ensures long-lasting performance and minimal maintenance, enabling consistent production and high throughput.

Enhance your processing capabilities with the Hammer Mill—an essential tool for any facility looking to improve efficiency and maximize output.

Technical Specification



	HMR S1	HMR M1	SSH L1
FEATURE	VALUE	VALUE	VALUE
MOTOR POWER	37 kW	55 kW	75 kW
HAMMER QUANTITY	12	16	24
CRUSHING CHAMBER	600 mm	800 mm	800 mm
SIEVE SIZES	30mm, 50mm, 75mm	50mm, 75mm, 120mm	50mm, 75mm, 120mm
HAMMER & FIXED BLADES	Hardox 500	Hardox 500	Hardox 500
LENGHT	1400 mm	1600 mm	1800 mm
WIDTH	1600 mm	1800 mm	2000 mm
HEIGHT	2200 mm	1500 mm	2800
WEIGHT	2800 kg	3600 kg	4500 kg



Sorting
Equipment

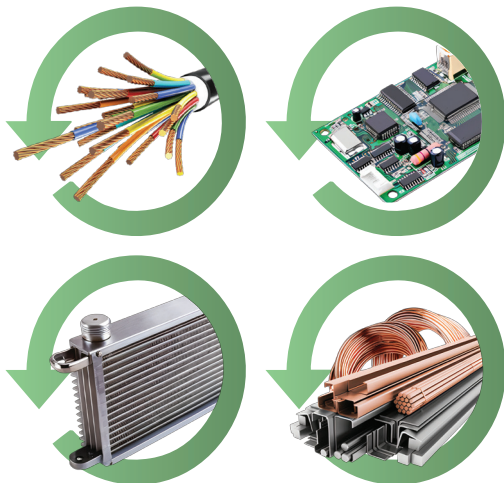


Densimetric Separators

Mizar Densimetric Separators efficiently separate materials based on their density differences. This technology is ideal for separating materials of different densities in recycling processes, offering superior performance, especially in applications where metals and plastics need to be separated.

The DES Series is equipped with precise adjustment mechanisms and high-performance fan systems, optimized down to the finest detail. As a result, low-density materials collect at the back, while high-density materials like copper accumulate at the front, ensuring effective separation. In addition to energy efficiency and low operating costs, the automation systems and user-friendly control panels make the processes easy to manage.

Technical Specification



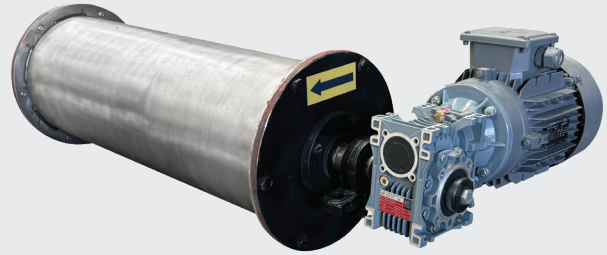
	DES S1	DES M1	DES L1
FEATURE	VALUE	VALUE	VALUE
POWER	15 KW	20 KW	27 KW
TABLE AREA	0.85 m ²	1.5 m ²	3.3 m ²
LENGTH	2280 mm	2350 mm	2500 mm
WIDTH	1090 mm	1570 mm	1970 mm
HEIGHT	3920 mm	3970 mm	4020 mm
WEIGHT	900 kg	1200 kg	1350 kg



Sorting
Equipment



Sorting
Equipment



Overbelt Magnetic Separator

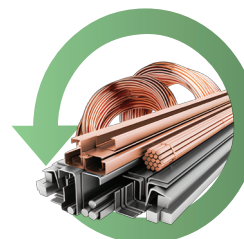
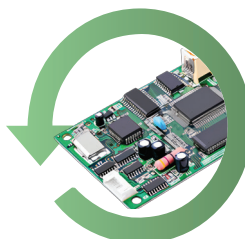
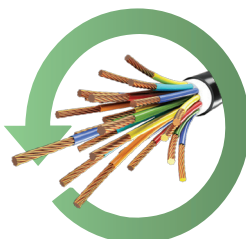
Designed to effectively remove unwanted metals such as iron and steel before the granulation process, magnetic blocks attract and remove metal pieces as the materials pass underneath, preserving product purity and protecting machines from iron-based residues. Mizar's OMS Series magnetic separators offer durability and high performance in continuous operations, providing a reliable solution for industries.

	OMS A1
FEATURE	VALUE
MAGNET	NEODYMIUM N52
MAGNET CORE STRENGTH	7,000 Gauss
SURFACE MAGNETIC FIELD	25 meter/min
EFFECTIVE DISTANCE	120 mm
OUTHER SURFACE	AISI 304

Magnetic Drum Separators

Mizar's semi-magnetic drum separators provide ideal solutions for separating iron-based metals from bulk materials and transported products. Easy to use and maintain, the MDS Series offers energy efficiency with low operating costs.

	MDS A1
FEATURE	VALUE
INTERNAL MAGNETISM	13,000 GAUSS
SURFACE MAGNETISM	4,000 - 5,000 GAUSS
MATERIAL	AISI304 STAINLESS STEEL





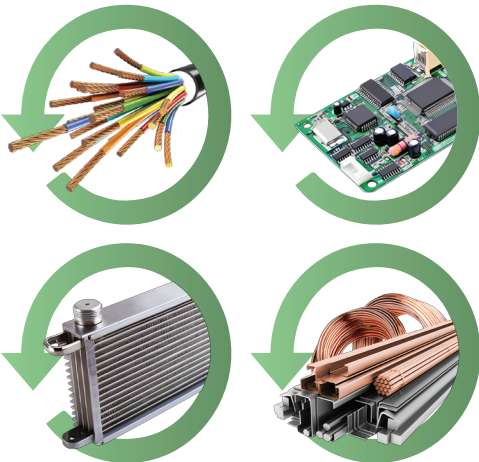
Sorting
Equipment



Zig Zag Separators

The Zig Zag Separator works based on weight differences. This highly efficient separator uses airflow to separate materials by weight. The zig-zag design extends the fall path of materials, providing a more homogeneous and accurate separation process. It is ideal for separating materials such as plastics and light metals from metal scraps. Our machine is designed to be integrated into production lines, offering maximum performance with low energy consumption. Additionally, its compact structure allows it to operate with minimal space requirements. The Zig Zag Separator provides an eco-friendly solution with high efficiency and low operating costs, optimizing your recycling process.

Technical Specification



	ZZS A1
FEATURE	VALUE
POWER	17 KW
LENGTH	2000 mm
WIDTH	1250 mm
HEIGHT	4180 mm
WEIGHT	700 kg



Sorting
Equipment



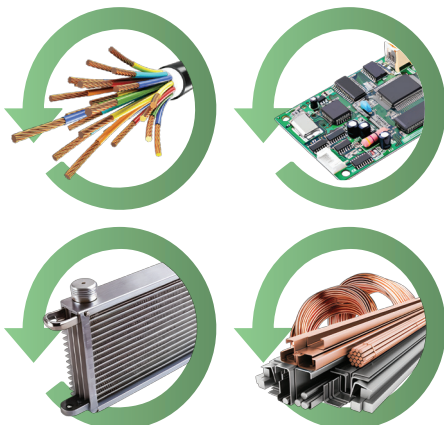
Electrostatic Separator

The Electrostatic Separator is a high-performance machine crafted to precisely separate fine materials from mixed recycling streams. By utilizing electrostatic charging, it efficiently distinguishes between conductive and non-conductive particles, making it ideal for handling complex materials like plastics, metals, and minerals. This advanced technology ensures high material purity, significantly enhancing the quality and value of recovered products.

With customizable operating parameters, the Electrostatic Separator provides the flexibility needed to process diverse material types and compositions, accommodating specific recycling needs. Its robust, energy-efficient design makes it a reliable choice for recycling plants looking to boost separation efficiency and reduce costs. Particularly suited for the final stages of recycling, it ensures high purity for downstream applications.

Built with durability and operator safety in mind, the Electrostatic Separator features intuitive controls and a low-maintenance setup, guaranteeing consistent performance and optimal resource recovery with minimal waste.

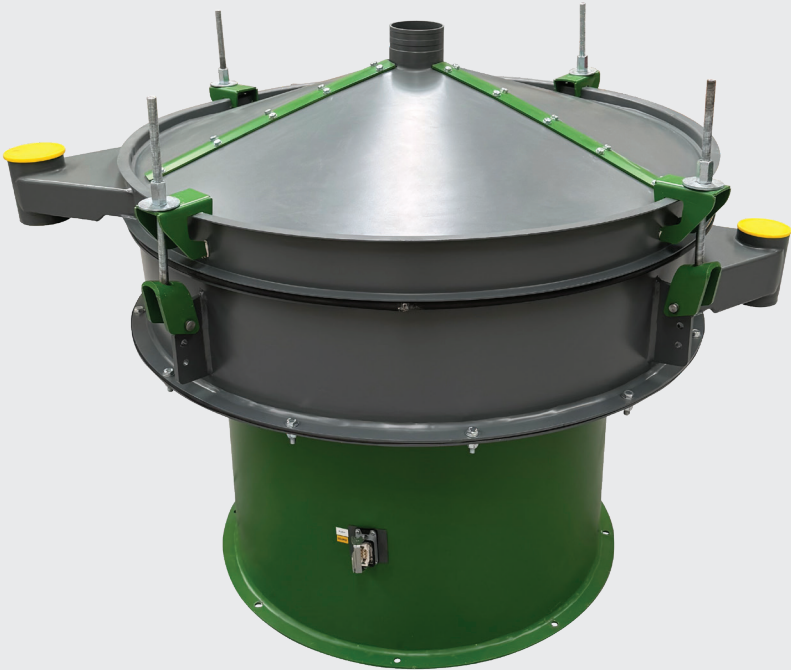
Technical Specification



ESP A1	
FEATURE	VALUE
DRUM LENGTH	1300 mm
DRUM DIAMETER	370 mm
HEATHER (4 UNITS)-	1000 Watts each
DRUM MOTORS (2 UNITS)	1.1 kW each
FEEDING SCREW CONVEYOR	1.5 kW, with Speed Controller
VIBRATION MOTOR	0.37 kW, with Speed Controller



Sorting
Equipment



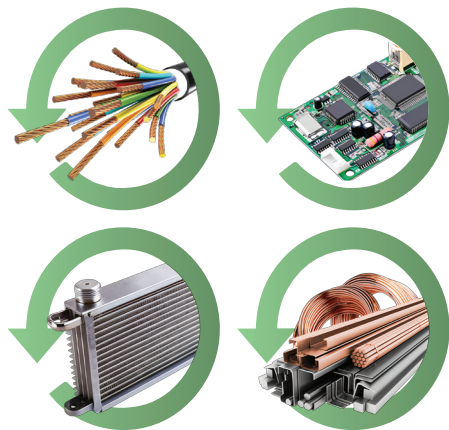
Circular Vibrating Sieve

The Circular Vibrating Sieve is an essential piece of equipment designed for precise material separation in various industries, including recycling, mining, and construction. This sieve utilizes a circular motion to efficiently screen and classify materials, ensuring uniform particle sizes and improved product quality. Its robust design enables it to handle a wide range of materials, from fine powders to coarse aggregates.

Equipped with adjustable vibration settings, the Circular Vibrating Sieve allows for customization based on specific material characteristics and separation requirements. The sieve's high throughput capacity and low maintenance needs make it a reliable choice for operations looking to enhance efficiency and productivity.

Safety features are integrated into the design, ensuring a secure working environment for operators. The Circular Vibrating Sieve is an ideal solution for facilities aiming to optimize material handling processes and achieve superior separation results.

Technical Specification



	CVS A1
FEATURE	VALUE
DIAMETER	1200 mm
LENGTH	1007 mm
WIDTH	648 mm
HEIGHT	905 mm
WEIGHT	350 kg



**Additional
Equipment**



Cable Stripping Machine

The CBR A3 Cable Stripping Machine is specially designed to strip the outer insulation material from cables of all sizes, making it easy to remove the conductive material inside. This series offers superior performance on steel-armored cables (SWA), double steel-armored cables, steel tapes, PVC-coated cables, lead-coated cables, thick rubber-coated cables, nylon-coated cables, low-grade cables, TT cables, and more. Specially processed blades with unique designs allow cables of any length to be cut and stripped for a long time without dulling the blades. All electrical and electronic components in the CBR A3 Series are Siemens brand. Our products are manufactured and certified in accordance with CE and EAC standards.

Technical Specification



	CBR A3
FEATURE	VALUE
POWER	5.5 KW
CABLE DIMENSIONS	1-120 mm
CUTTING SPEED	25 meter/min
LENGTH	1240 mm
WIDTH	780 mm
HEIGHT	1330 mm
WEIGHT	480 kg



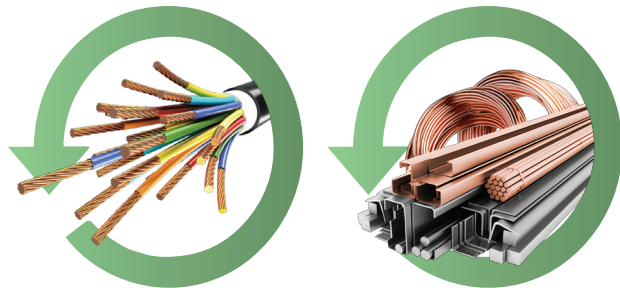
Additional
Equipment



Alligator Shears

MIZAR ALS A1 is designed for the hydraulic cutting of scrap cables and metals. The surface of the cylinder shafts is induction-hardened and chrome-plated for long-lasting performance. MIZAR ALS A1 is equipped with specially processed tool steel blades and a Bosch Rexroth hydraulic unit. All electrical and electronic components are Siemens brand. Our products are manufactured and certified in accordance with CE and EAC standards.

Technical Specification



	ALS S1	ALS M1
FEATURE	VALUE	VALUE
POWER	7.5 KW	7.5 KW
BLADE LENGTH	400 mm	600 mm
CUTTING SPEED	7 cut/min	7 cut/min
LENGTH	1650 mm	1650 mm
WIDTH	820 mm	820 mm
HEIGHT	1600 mm	1600 mm
WEIGHT	1250 kg	1300 kg



**Additional
Equipment**



Conveyor Belt

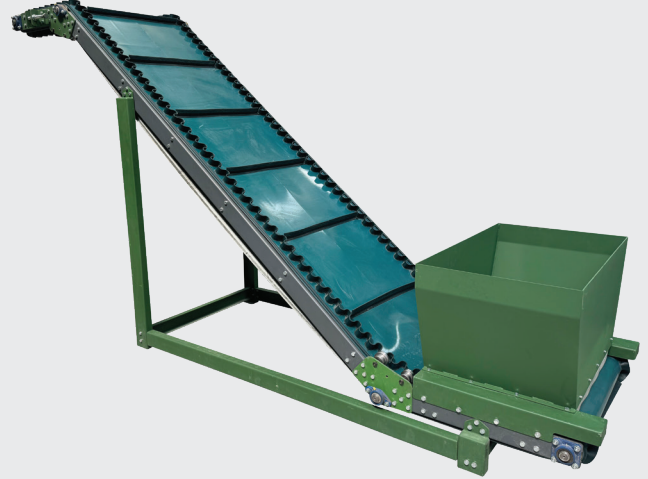
The Conveyor Belt is a vital piece of equipment in various industrial applications, designed to efficiently transport materials across different stages of production and processing. With its durable construction and customizable design, this conveyor system can handle a wide range of materials, from bulk goods to packaged products.

Featuring adjustable speed settings and multiple width options, the Conveyor Belt can be tailored to meet specific operational needs. Its smooth and continuous operation minimizes product damage, ensuring that materials are transported safely and efficiently. Additionally, the modular design allows for easy integration into existing production lines, enhancing overall workflow.

Safety is a priority, and the Conveyor Belt is equipped with features such as emergency stop buttons and protective guards to ensure a secure working environment. This makes it an ideal solution for factories and warehouses seeking to improve material handling and increase productivity.



**Additional
Equipment**

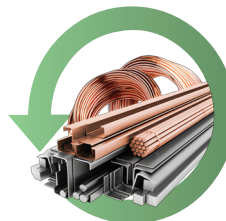
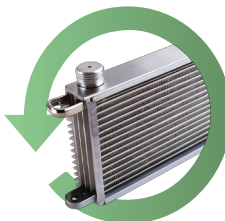
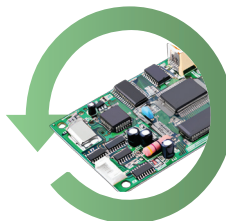


Z Conveyor Belt

The Z Conveyor Belt is an innovative material handling solution designed to efficiently transport products between different elevation levels within a facility. Its unique Z-shaped design allows for vertical and horizontal transportation, making it ideal for use in warehouses, production lines, and recycling operations.

Constructed from durable materials, the Z Conveyor Belt ensures reliable performance even in demanding environments. The adjustable angle of the incline can be customized to meet specific operational needs, providing flexibility in material flow management. This conveyor system enhances workflow efficiency by reducing manual handling and facilitating seamless transitions between processing stages.

Safety features, including emergency stop buttons and side guards, are integrated into the design to protect operators during operation. The Z Conveyor Belt is an ideal choice for facilities aiming to optimize their material handling processes and improve overall productivity.





Additional Equipment



Dosage Bunker

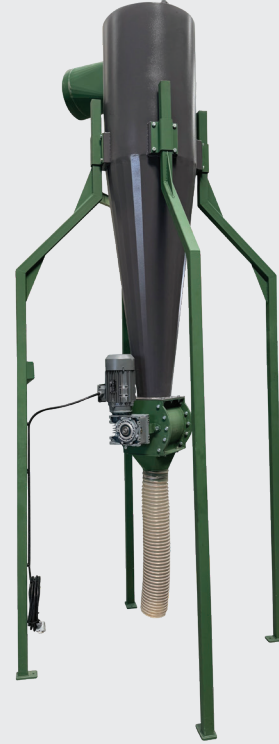
The Dosage Bunker is a critical component in material handling and processing systems, designed for the precise storage and dosing of bulk materials. This robust storage solution ensures that materials are held securely while allowing for accurate dispensing, making it ideal for applications in industries such as recycling, food processing, and manufacturing.

Constructed from high-quality materials, the Dosage Bunker is built to withstand harsh conditions and heavy loads. Its design features adjustable outlets and integrated weighing systems, enabling operators to control the flow and quantity of materials with high accuracy. The bunker can be easily integrated into existing production lines, enhancing workflow efficiency and minimizing material waste.

Safety and ease of use are paramount; the Dosage Bunker includes user-friendly controls and safety mechanisms to protect operators during operation. It is an essential solution for facilities aiming to optimize material management and improve overall operational efficiency.



Additional Equipment

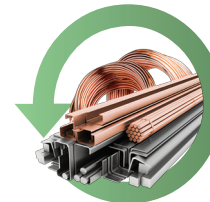
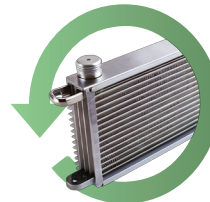
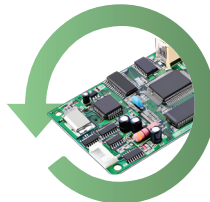


Dust Collector

The Dust Collector is an essential system designed to enhance air quality and maintain a clean working environment in industrial facilities. This powerful equipment efficiently captures and removes airborne dust and particulate matter generated during manufacturing and processing operations, ensuring compliance with environmental regulations and promoting worker safety.

Featuring advanced filtration technology, the Dust Collector can handle a wide range of dust types, including fine particles from wood, metal, and plastic operations. Its modular design allows for easy integration into existing production lines, providing flexibility in installation and operation.

The Dust Collector operates quietly and requires minimal maintenance, making it a cost-effective solution for various industries. Safety features, such as explosion-proof designs and automatic cleaning systems, ensure reliable performance and minimize downtime. This machine is ideal for facilities aiming to improve air quality and maintain a safe, productive working environment.



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