



MASCOT
ELECTROTEK PVT. LTD.

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MASCOT
ELECTROTEK PVT. LTD.
EXCELLENCY SINCE 1996



PET BOTTLE
RECYCLING SOLUTION

EXCELLENCE IN EVERY DETAIL

ABOUT US I

MASCOT ELECTROTEK PVT. LTD. is one of the leading **Manufacturer & Exporter of Plastic PET/PP/PE Recycling Plants** in India, it was established in 1996 at Shapar Industrial zone in Rajkot Gujarat, India. Over 20 Years ago Mascot Electrotek was founded by **Mr. Vinod Ramani** with the committed objective of providing State of the art Machineries with solutions that cost effectively.

Today company designs, manufacture and install the widest possible range of equipment's and PET recycling plants for Fiber grade, Sheet grade & B2B grade applications. Today MASCOT is one of the major suppliers of PET bottle recycling system in Asia. We had around 20 years of experiences in polymer recycling field and with that we manufacture PET Bottle recycling machine, configuring Pelletizing line, Polyester Staple Fibre line, POY line and Bottle to Bottle(B2B) Line.

MASCOT has grown up to tech lead cooperation that specialized in R&D and manufacturing industrial machinery for plastic recycling. We offer recycling equipment fit for large-scale, large-volume recycling for post-consumer, post commercial, and post-industrial plastic scrap. We are quite prominent firm that is actively committed to offering a premium quality range of products with numerous specifications within minimum time period and at genuine rates.

28+ Years of Experience

OUR PHILOSOPHY

At Mascot Electrotek we believe that excellence is not just a goal; it's our way of life. Our unwavering commitment to **quality, innovation, and customer satisfaction** drives everything we do. Here are the pillars of our philosophy:

- **Quality First:** We take pride in delivering products and services that meet the highest standards. From design to production, every step is meticulously executed to ensure reliability and durability.
- **Innovation at the Core:** The industrial landscape is constantly evolving, and so we are. We embrace cutting-edge technologies, continuous improvement, and creative problem-solving to stay ahead of the curve.
- **Collaboration and Integrity:** Our success is built on strong partnerships—with our clients, employees, and suppliers. We value transparency, honesty, and ethical conduct in all interactions.
- **Sustainable Practices:** As responsible global citizens, we prioritize sustainability. Our processes minimize environmental impact, and we actively contribute to the communities we serve.

Quality Standards



We are ISO 9001:2015, RoHS Complaint, CE Certified Product Company with strict Quality Standards.

Continuous quality improvement helps company unleashing higher standards and contributing in national interest too...!

Our principle is to serve the best quality equipment to our valued customers in every industries at affordable price with excellent service.

OUR CLIENTS OUR PRIDE



BIO SPINNING
Group - Indore



TATA COFFEE LIMITED



OUR PRODUCTS |

SR. NO	PRODUCT CATEGORY	PRODUCT TYPE
01	Plastic Recycling Plant	- PET Bottle-to-Bottle (B2B) grade Washing Plant (1Ton/H to 6 Ton/H) - PET Bottle Recycling Plant (500 kg/H to 6 Ton/H) [Fiber Grade-Sheet Grade] - PP/PE/HDPE Recycling Plant (500 kg/H to 2 Ton/H)
02	PSF Plant Equipment's	- S.S Spinning Canes - Storage Silo/Bunkers - Bending Silo - Auto Belt Weighing System - PP/PE Washing Plant
03	Sorters	- Plastic Flakes Color Sorters - Bottle Sorter (Color/Polymer) - Polymer Flakes Sorter
04	Metal Detectors	- Gravity Feed Metal Detector - Online Metal Detector - Conveyer Metal Detector - Stone Metal Detector - Fruit Pulp Metal Detector - Industrial Metal Detector
05	Magnetic Seprators	- Belt Conveyor / Drum Type - Magnetic Grills - Hopper Magnet - Magnetic Plate - Magnetic Rodes
06	Conveyer/Elevator Systems	- Screw Conveyor - Belt Conveyor - Bucket Conveyor - Chain Plate Conveyor - Z-Bucket Conveyor
07	Electrostatic Separator	High Voltage (Roller Type)
08	Eddy Current Separator	Belt Type With Magnetic Drum
09	Thermocouples Sensors	- J (0° to 400°) - K (0° to 1200°) - R (0° to 1600°) - PT100 (-200° to 400°) - Proximity Sensors (AC/DC) - Digital Pen Type Thermocouple (-50° to 400°)
10	Electronic Process Control Instruments	- Digital Temperature Indicator/Controller - Digital Volt Meter, Amp Meter, Counter Meter - Timer (Programmable) - Water Level Controller - Synchronized Card - Cyclic Timer (Digital/Manual) - Digital Thermometer - AC Drive
11	Other Products	- PVC Label & Dust Separator (ZigZag) - Label Remover - Automatic Bag Filling and Weighing System

SOLUTIONS |



PLASTIC INDUSTRIES

- PET Bottle Washing Plant
- PP/PE/HDPE Washing Plant
- Metal Detectors
- Metal Sorters



FOOD INDUSTRIES

- Metal Detector
- All Metal Separators
- Elevators and Conveyors
- Magnetic Separators



RUBBER INDUSTRIES

- Metal Detectors
- Metal Separators
- Conveyors



PACKAGING INDUSTRIES

- Metal Detector
- Elevators and Conveyors



TEXTILE INDUSTRIES

- Metal Detectors



PSF PLANT

- SS Spinning Canes
- Storage Silos
- Blending Silos
- Auto Belt Weighing System

ALL METAL SEPARATOR

METAL SORTOR



Capacity	100Kg to 3T per Hour
Alarm Mode	Sound, Led Lights
Model	MASCOT ESTEEM
Structure Material	M.S. (Powder Coated) / S.S 304
Size/Dimension	50 mm to 150 mm pipe
Weight	100 to 125 Kg

Product Description

Our range of gravity feed Metal Separator is manufactured using superior quality raw materials. These systems assist in inspecting free flowing bulk powder or granular materials that are passed through the vertical drop system. This system separates ferrous, non-ferrous and Stainless Steel contamination from bulk power and granules. It can separate all metals Brass, Aluminium, Copper, Manganese, Lead, Black stones, Gutkha pouch etc. These systems come with 304 grade stainless steel reject valves that are electrically or pneumatically operated. Our systems are easy to operate and have modular plug in card system.

Throughput Pipe Internal Diameter(mm)	Best Sensitivity (Diameter Sphere)	
	Ferrous(mm)	Non - Ferrous (mm)
50	0.5	0.7
80	0.7	1.0
100	0.8	1.2
120	1.0	1.4
150	1.3	1.7

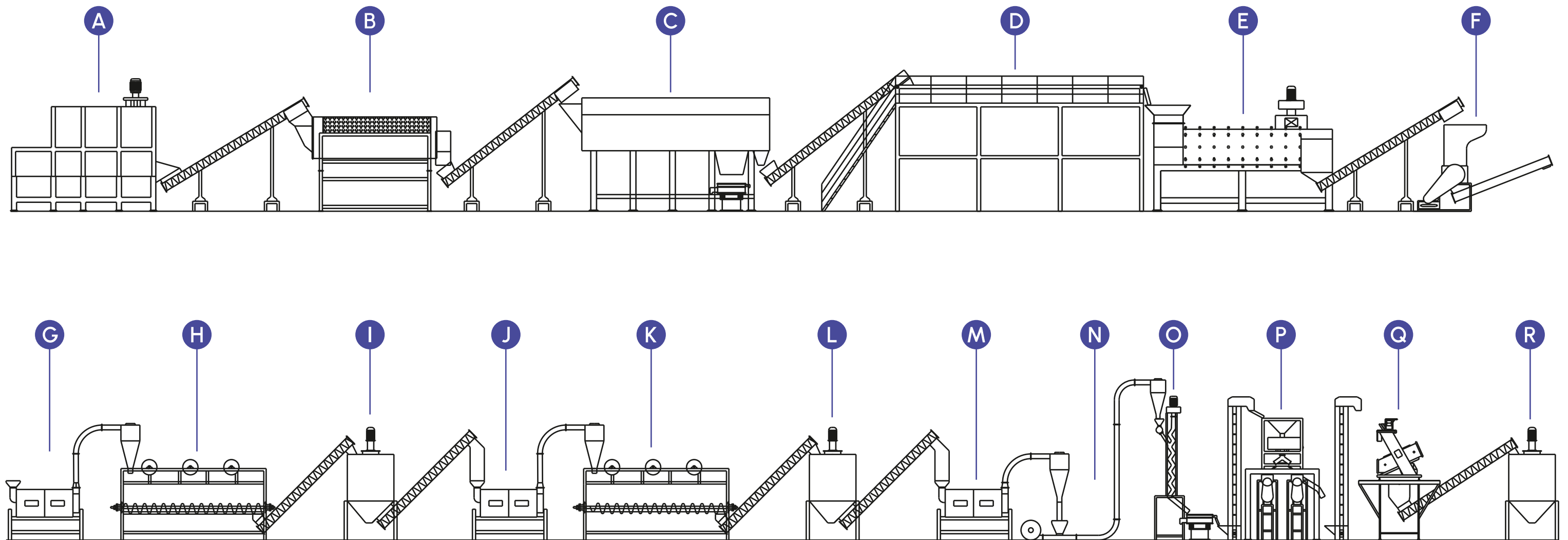
These gravity feed systems are offered with automatic balance, stainless steel finish for easy clean hygienic design, dual signal/ dual channel design, product effect cancellation control, audio/visual alarm on detection. These systems come with adjustable sensitivity and are vibration as well as shock proof. The different technical details of our gravity feed systems are given below: Our metal detector used for food, plastic recycling, Rubber recycling, Glass, Recycling, Chemical, Pharma, Agro commodity.



Metal sorter is used to detect and sort ferrous, non-ferrous & SS metal from PET Flake, Plastic Flakes/Granules with minimum rejection percentage. It can separate minimum Ferrous 0.7 mm, Non-Fe 1 mm sphere.

Production Rate	500 Kg/ Hour to 4000 Kg/ Hour
Size	Various Sizes to Fit Specific Requirements
Accuracy	98%
Channels	2 to 24
Technique	Electromagnetic Induction
Warranty	1 year
Frame	Mild Steel (M.S.)
Weight	150-1500 KG
Power	230V & 440V AC

PET BOTTLE WASHING LINE



A - Bale Breaker	B - Trommel	C - Pre Washer	D - Sorting Belt	E - Label Remover	F - Crusher	G - Spin Dryer	H - Floating Tank
I - Hot Washer	J - Spin Dryer	K - Floating Tank	L - Rinsing Tank	M - Spin Dryer	N - Pneumatic Drying System	O - Zig Zag Separator	
P - Metal Sorter	Q - PET Flakes Color Sorter	R - Packaging Silo					

PET BOTTLE WASHING LINE |

The PET bottles washing line is an important part of the PET recycling process. Mascot washing line has a high degree of automation and processes batches of PET bottles into high purity PET flakes for Re-granulation.

Our standard PET bottle washing line is your complete solution for turning dirty bales of PET bottles into clean PET Flakes. We offer standard washing capacities from 500kg/h up to 4000kg/h and can also manufacture custom wash lines with greater capacities upto 6000kg/h.

Mascot's PET recycling line is fully automatic where each piece of recycling machinery is connected via the use of either belt or screw conveyors. In addition, the entire washing line is controlled via a central electric control panel.



Mascot's PET Washing Line facility is engineered to reduce management expenses, lower water usage, minimize the consumption of chemical products, utilities, and as well as decrease wastewater and operator involvement. The facilities are available on a turnkey basis or tailored to meet specific customer needs. Due to its modular design, the plant can be installed in both existing structures and new developments. Consequently, it is also feasible to incorporate pre-washing units for bottles and washing units for flakes into current operations.

Mascot Electrotek is grown up to high-tech group cooperation that specialized in R&D and manufacturing of the industrial machinery for plastic recycling. We offer recycling equipment fit for large-scale, large-volume recycling of post-consumer, post-commercial, and post-industrial plastic scrap.

The final product rPET flakes has a stable quality and various grade applications, especially for PSF ,POY manufacturer with big capacity. Recent year, Mascot develop new technology, rPET can be achieved Bottle-to Bottle grade application.

Estimated Plant Parameters & Production Consumption

Capacity (Kg/Hour)	Approx. Required Area (LxWxH) in meters	Steam Consumption (Kg/Hour)	Water Consumption (m3/Hour)
500	55x5x6	280	0.75
1000	70x8x8	420	1.50
2000	105x10x8	970	3.00
3000	122x12x8	1300	4.50
4000	136x12x8	1940	6.00
6000	170x16x8	2300	9.00

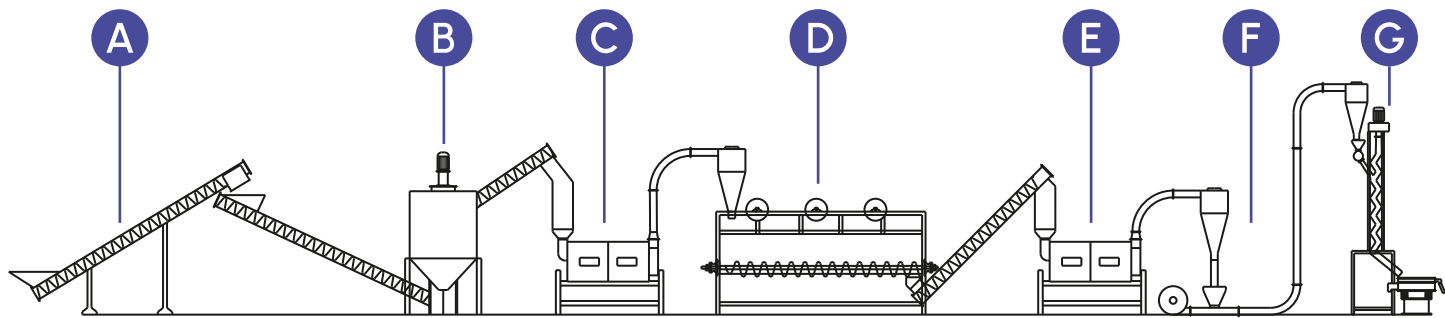
* Average Consumption Per Ton Flakes

Electricity (kW)	Steam (Kg)	Washing Detergent (Kg)	Water (T)
140	600	10	1.5
135	550	10	1.5
125	475	8	1.5
120	450	8	1.5
110	425	8	1.5
100	400	8	1.5

Pet Flakes Quality Reference Table (Fiber Grade)

Description	AA Level (PPM)	A Level (PPM)
PVC Content coloured flake metal and other impurity content	≤30	≤100
PP/PE	≤70	≤100
Total Impurities :	≤100	≤200

PP WASHING LINE



A - Screw Conveyor B - Hot Washer C - Spin Dryer D - Floating Tank
E - Spin Dryer F - Pneumatic Drying System G - Zig Zag Separator

Product Description

MASCOT’s comprehensive PP PE film processing line is designed for the recycling and purification of various waste plastic materials like PP Bottle Caps, HDPE, LDPE and can effectively wash including LDPE agricultural film, LLDPE packaging film, PP woven bags, and PP jumbo bags, among others. We offer PP PE film washing lines with capacities ranging from 250 kg/h to 2500 kg/h. With decades of experience, we deliver integrated recycling solutions characterized by our innovative design, expert engineering, and extensive global service expertise. Our PE PP film washing line has garnered widespread acclaim from users, significantly enhancing the efficiency and output of plastic PP PE film recycling.

Here's a brief overview of process:

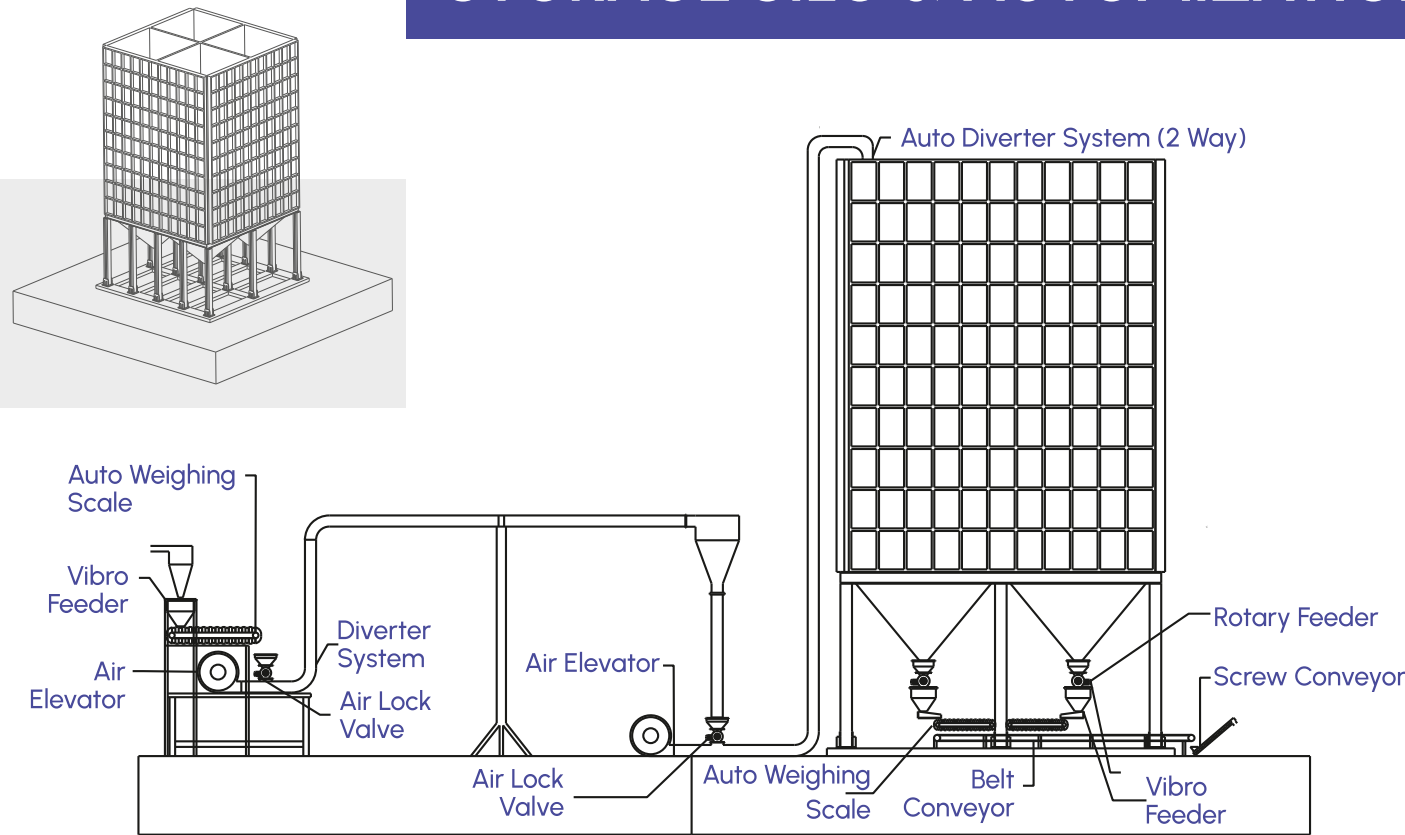
- **Crushing Unit:** The machinery starts with a crusher that breaks down large pieces of PP plastic into smaller fragments.
- **Wet Grinding Unit:** Using paddle-type blades, unit grinds the plastic further while minimizing power consumption and noise.
- **Gravity Separation Unit:** This step separates contaminants from the plastic using water, allowing clean PP to float while heavier impurities sink.
- **Friction Washing Unit:** The plastic is washed with hot solutions to remove any remaining impurities, achieving high purity levels.
- **Drying Unit:** The cleaned plastic is dried using centrifuges and thermal dryers to reduce moisture content before packaging.
- **Packing Unit:** The final step involves packaging the clean PP plastic into granules or pellets, ready for reuse in manufacturing.

Here are some features of a PP article washing line:

- **Washing process:** The line uses multiple friction washing and rinsing to remove dirt like oil and mud.
- **Material:** The line is made of SS 304 for parts that come into contact with water, and MS material for the structure.
- **Automation:** The line is highly automated, which reduces the need for manual labour.
- **Energy consumption:** The line is efficient and uses less energy.
- **Sewage water recycling:** The line has a solution for recycling sewage water.

Our PP Washing Line machinery is efficient, cost-effective, and designed to handle a high throughput of plastic waste, making it ideal for recycling operations.

STORAGE SILO & AUTOMIZATION



Product Description

Our Big Storage Silos are designed for the high-capacity storage of bulk materials, making them Specialize for plastic industries. These silos offer robust storage solutions for large volumes, ensuring efficient and secure material handling. Our silo storage solutions are engineered to ensure efficient material handling and storage, making them an essential component in bulk material handling processes.

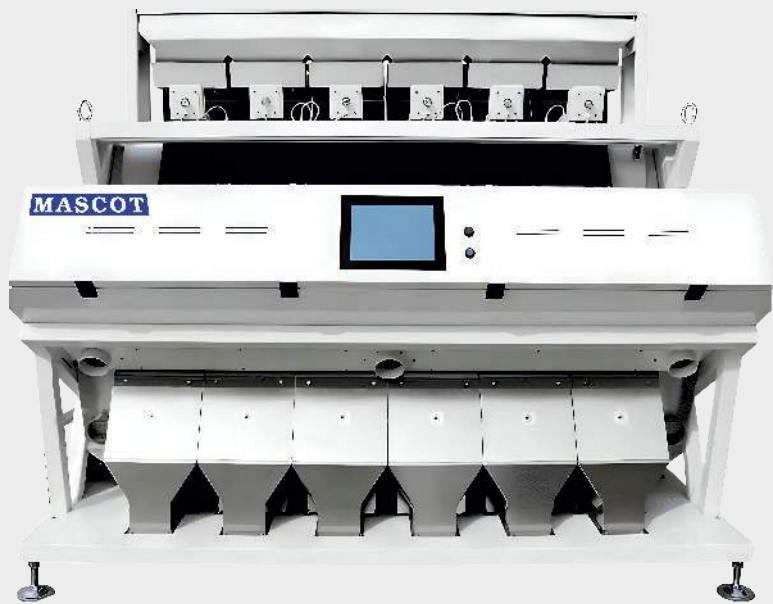
Key Features

- Robust Construction:** Our silos are built with durable materials such as stainless steel mild steel, ensuring long-term reliability and resistance to corrosion.
- Customizable Designs:** We offer customizable designs to suit specific storage requirements, including capacities ranging from small-scale to large-scale storage needs.
- High Capacity:** Engineered to store large volumes of plastic granules and PET/PP materials.
- Durable Construction:** Built from high-quality materials to withstand continuous use.
- Weather Resistant:** Designed to protect contents from environmental factors.
- Efficient Loading and Unloading:** Facilitates easy material flow with top loading and bottom discharge.
- Customizable Design:** Available in various sizes and configurations to meet specific storage needs.

Material	SS 304 and M.S
Capacity	Customizable from 10 to 2000 tons.
Dimensions	Various sizes available to fit specific requirements.
Loading/Unloading Options	Top loading and bottom discharge
Coating	Protective coatings for increased durability and corrosion resistance.

PLASTIC COLOR & POLYMER SORTER

Results



PLASTIC COLOR SORTER



REJECTED



ACCEPTED

POLYMER SORTER



REJECTED



ACCEPTED

PLASTIC COLOR SORTER

Intelligent Self-cleaning System :

- Combination of intelligent self-cleaning system with 360-degree stereo suction.

Eagle-eye Recognition Technology :

- Precisely recognize tiny spot or light impurities that normal color sorter cannot recognize with precise classification and optimized carryover ratio.
- Identifies material fingerprint with intelligent perception function with quality sorting perception technology.

Self Detection System :

- Real-time monitoring appearing working status of components in real time, hardly detectable foreign matters.
- Intelligent variable light alarm system.

Intelligent Input Flow Control :

- Adjust the input flow of each chute according to production line.
- More flexible in production.

	MCS-1	MCS-2	MCS-3	MCS-4	MCS-5
Product Output(T/H)	0.5-1.5	1.0-2.5	2.0-4.5	3.0-6.5	3.5-8.0
Executing Unit(mm)	64	128	192	256	320
Power(kW)	0.8	1.3	1.9	2.4	3
Power Supply(V/Hz)	220/50	220/50	220/50	220/50	220/50
Air Pressure	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8
Weight	300	400	500	650	800
Dimension	880*1504*1760	1314*1504*1760	1650*1504*1760	1986*1504*1760	2322*1504*1760

POLYMER SORTER

2D Near Infrared Sensor :

- Combining two-dimensional NIR technology, high-precision camera, maintenance-free light source heat dissipation scheme and long-life infrared light source. The MPS series can accurately detect and separate non-PET contaminants.

High And Stable Throughput :

- Wide chute, multi-stage feeding, anti-blocking material design, high throughput feeding, support long-term unmanned control work, fully meet your production needs.

Flexible Support :

- Supports normal sorting, reverse sorting, single sorting, re-sorting, and 5-time sorting. It has strong applicability and can be adjusted according to your actual process.

High Accuracy :

- High-speed sensors, chips and "missile guidance" systems ensure the sorting accuracy rates as high as 99%.

	MPS-1	MPS-2	MPS-3	MPS-4	MPS-5	MPS-6	MPS-7
Product Output (T/H)	0.4-1.5	0.6-2.3	0.8-3	0.8-3.3	1-4	1.8-5.3	2-6
Air Consumption	<1	<1.5	<2	<2.5	<3	<3.5	<4
Power (KW)	2.2	4.2	4.2	6.2	6.2	8.2	8.2
Voltage/Frequency(V/Hz)	220/50	220/50	220/50	220/50	220/50	220/50	220/50
Air Pressure (Mpa)	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8
Weight(Kg)	900	1150	1250	1750	1850	2200	2300
Dimension(MM) L*W*H	1475*1928*2385	2150*1928*2385	2150*1928*2385	2825*1928*2385	2825*1928*2385	3518*1928*2385	3518*1928*2385