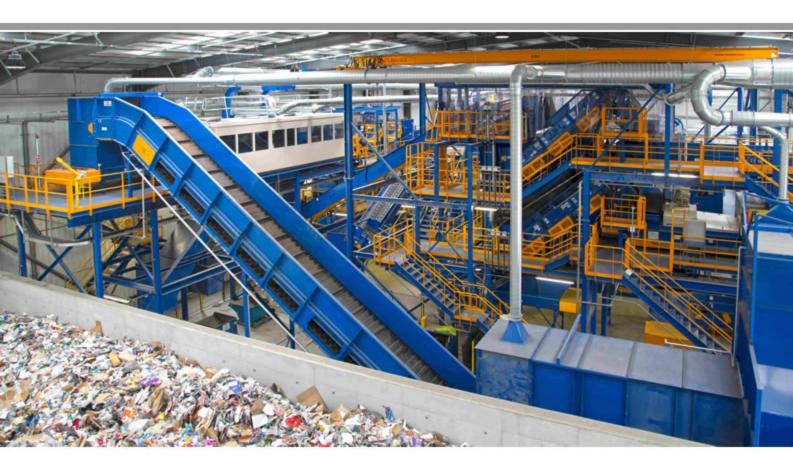
# **MSW**



# **Municipal Solid Waste**

HANDLE & RECYCLING

# SOLUTIONS

www.mswhandle.com



#### **MSW HANDLE SOLUTIONS**

MSW technology is a high-tech group company, focus on waste sorting and recycling equipment, manufacturing, project contracting and turnkey services, is China leading sorting solutions company for municipal solid waste(MSW).

Products nclude:Feeding Systems, Manual Sorting Systems, Shredding and Sieving Systems, Magnetic Sorting Systems, Eddy Current Sorting Systems, Air Sorting Systems, Optical Color Sorting Systems, Crushing Systems, Conveying Systems, Baling Press Systems, Electronic Control Systems etc.

MSWhandle powered by China State-Owned Enterprise, products have gone abroad and successfully entered the Europe, Asia and Africa markets and received high praise among the customers

Email: mswhandle@gmail.com Add: Zhengzhou,Henan, China

# **FEEDING SYSTEMS**

## **FEEDER STORAGE HOOPER**

- Storage hopper body is composed of a hopper body a supporting device, a supporting beam, a protective plate and other components.
- The designed volume is designed according to the specifications and processing capacity of project



10 / 20 / 30 / 40 / 50 Cubic Meter







# **FEEDING SYSTEMS**

## FEEDER + DISTRIBUTOR

- Flat link chain, plate or belt conveyor feeding types are as an alternative
- Durable steel or stainless steel body for different waste applications
- Variable speed feeding applications
- With suitable feeding distributor / decompactor

#### SPEC

Width 1.2 M 1.4 M 1.6 M 1.8 M









# **CONVEYOR SYSTEMS**

## **Material Transferring Conveyors**

- Plate Conveyor / Chain Conveyor
- Frame Sliding Belt Conveyor
- Trough Type Belt Conveyor
- High Speed Belt Conveyor
- Two Way (Revolving) Belt Conveyor

#### SPEC

Width 1.0 M 1.2 M 1.4 M 1.6 M 1.8 M 2.0 M







## **BAG BREAKING SYSTEMS**

## **BAG OPENER**

- Suitable to open the bags that contain the incoming MSW and achieve the reduction of the size of the waste.
- The rotor incorporates a series of tearing teeth, which open the bags by tearing them against some fixed teeth.

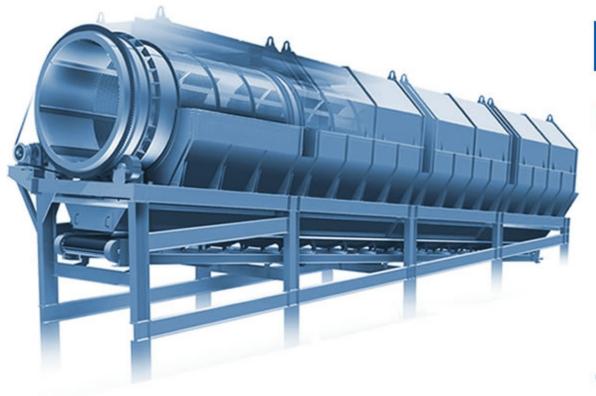
#### SPEC

Width 1.2 M 1.4 M 1.6 M 1.8 M 2.0 M









# **SCREENING SYSTEMS**

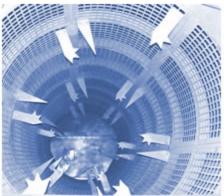
## TROMMEL SCREEN

- The rotating body rotates steadily, the conveying speed is stable and the noise is low
- Screen size according to process settings, anti-corrosion treatment
- "Three in One" shaft set reducer, with large friction, shock resistance, long service life
- Optional "broken bag blade" to increase the effect of breaking the bag

#### SPEC

Diameter 1.8 M 2.5 M 3.0 M







# **AIR SEPARATING SYSTEMS**

## **AIR SEPARATOR**

The use of aerodynamic principles, under the combined effect of positive pressure and negative pressure, the separation of light material plastic, paper, etc.

Adjustable air volume, wind pressure adjustment

#### SPEC

Width | 0.8 M | 1.0 M | 1.2 M | 1.4 M | 1.6 M

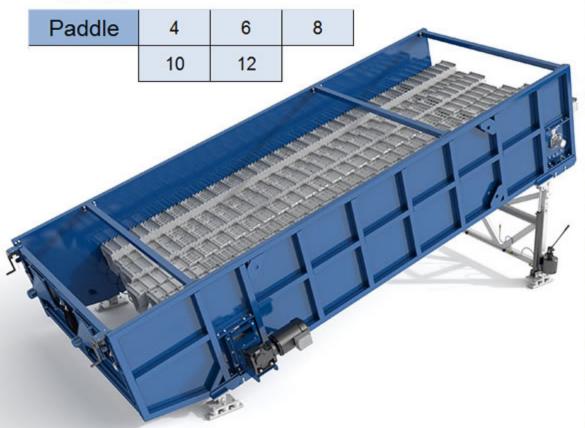


## **SEPARATING SYSTEMS**

## **BALLISTIC SEPARATOR**

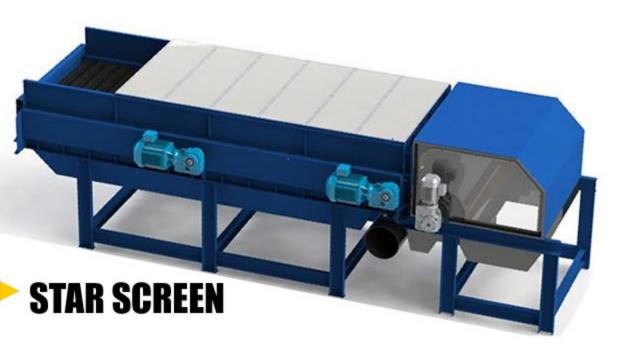
- 3D moveable objects and 2D objects can be sorted. It has screening function. 3D objects such as: wood, foams, stones, bottles and boxes, 2D flat objects such as films, packages, papers
- high capacity, incomparable sorting rate and hardness
- the rate of purity can be up to 98%

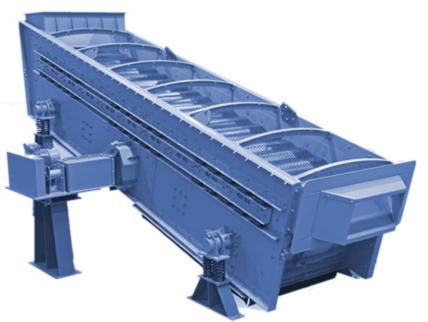
#### SPEC











## FLIP FLOP SCREEN



**CUSTOMIZABLE** 

## **VIBRATING SCREEN**



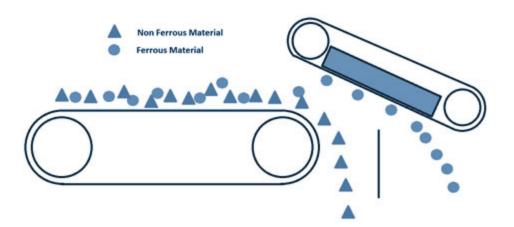
• SPEC

Length

4 M

6M

9M



# **SORTING SYSTEMS**

## **MAGNETIC SEPARATOR**

#### SPEC

Width 0.8 M 1.0 M 1.2 M 1.4 M

- The use of high coercivity rare earth permanent magnet material as a magnetic source, the magnetic properties of stable and lasting
- Magnetic coercivity ≥ 17000 Oe, to ensure that the magnetic properties from ambient temperature and mechanical vibration and other factors

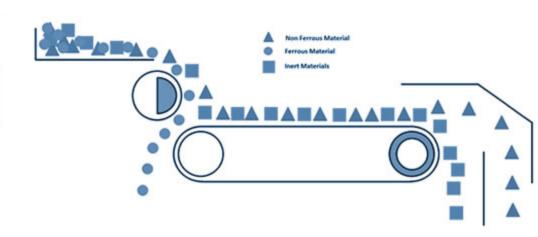


## **SORTING SYSTEMS**

## **EDDY CURRENT SEPARATOR**

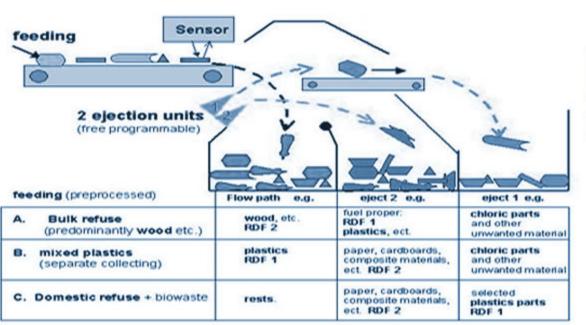
• SPEC

Width 0.8 M 1.0 M 1.2 M 1.4 M



- Conveyor belt speed and magnetic roller speed can be adjusted, High-performance magnetic field using high-strength magnetic field, the effective separation of non-ferrous metals
- Integrated drive reducer, drive smooth, frequency control, meet the different particle size range of materials





### **OPTICAL SORTING SYSTEMS**

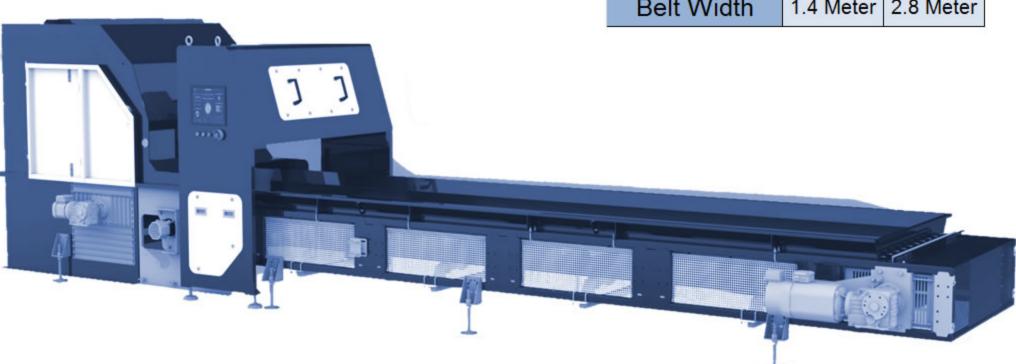
## **NIR SORTER**

- Can be sorted out: PE, HDPE, LDPE, PP, PS, PET, PVC and other plastics, paper, wood, glass etc
- Can quickly analyze the spectral properties of the material to meet the special sorting needs of customers
  - SPEC





Belt Width 1.4 Meter 2.8 Meter



## **OPTICAL SORTING SYSTEMS**

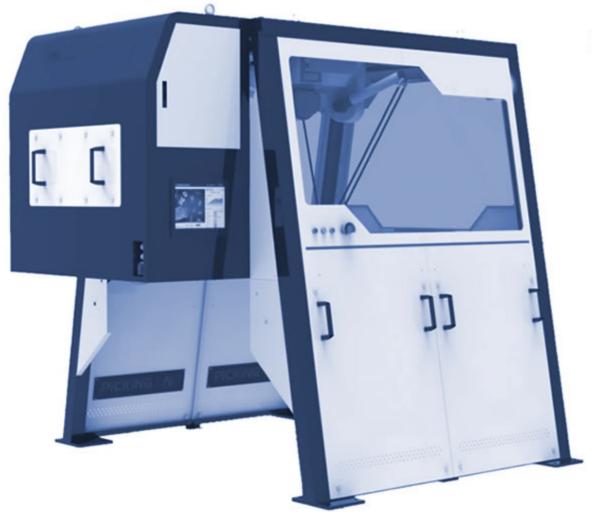
## **SORTING ROBOT**







- based on artificial intelligence technology, with deep learning, Al algorithms
- Can be sorted out: plastics, paper, wood, glass etc

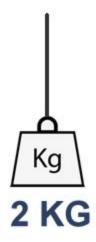


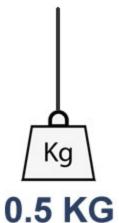




4000 PICKS/HOUR

6000 PICKS/HOUR





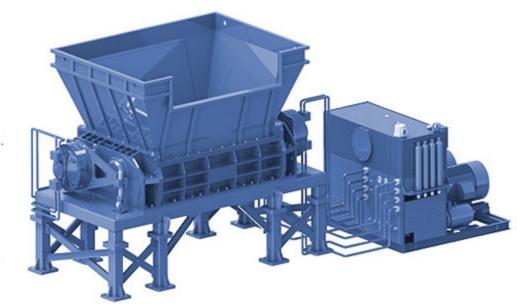
## **CRUSHING SYSTEM**

## WASTE SHREDDER 🔻

waste shredder can satisfy different industries' recycling needs. It is used to shred thick and hard to break materials like: electronic waste, hard plastic, metal, wood, rubber, packing barrel, plastic pallet, etc. After shredding, the material can be recycled directly or keep reducing the size. For different materials, we will design different cutter and do different surface treatment to achieve best shredding effect and highest production rate. low rotating speed, large torque, and little noise. It is controlled by PLC system.

It can be set to start, stop, and reverse when overloading auti







#### • SPEC

## PAPER / PLASTIC BALER



The recyclables are transferred into the baler's metallic hopper by means of a chain conveyor. Once the hopper is full of material, the baler's main piston runs forward and the material is entering the tunnel, thanks to the metallic plate's pressure. The working pressure has been pre-viously set at the desired value. Once the desired bale length is obtained, it is tied automatically with steel wire.

The equipment completes the actions of stepping up, packing, and pushing out materials through the hydraulic system

#### SPEC

Capacity 1 ton 2 ton 4 ton 6 ton 8 ton

The metal balers will be of horizontal type with a knife. It suitable for metals compaction and baling (beverage cans, wire, etc.). It is made of a durable steel frame of compact size to allow its installation in narrow are-as.

The hydraulic system and the baler will form a compact unit so to ensure high reliability with less maintenance, making the heating of the hydraulic oil decreases.

#### SPEC

Capacity	1 ton	2 ton	3 ton
----------	-------	-------	-------



**METAL BALER** 



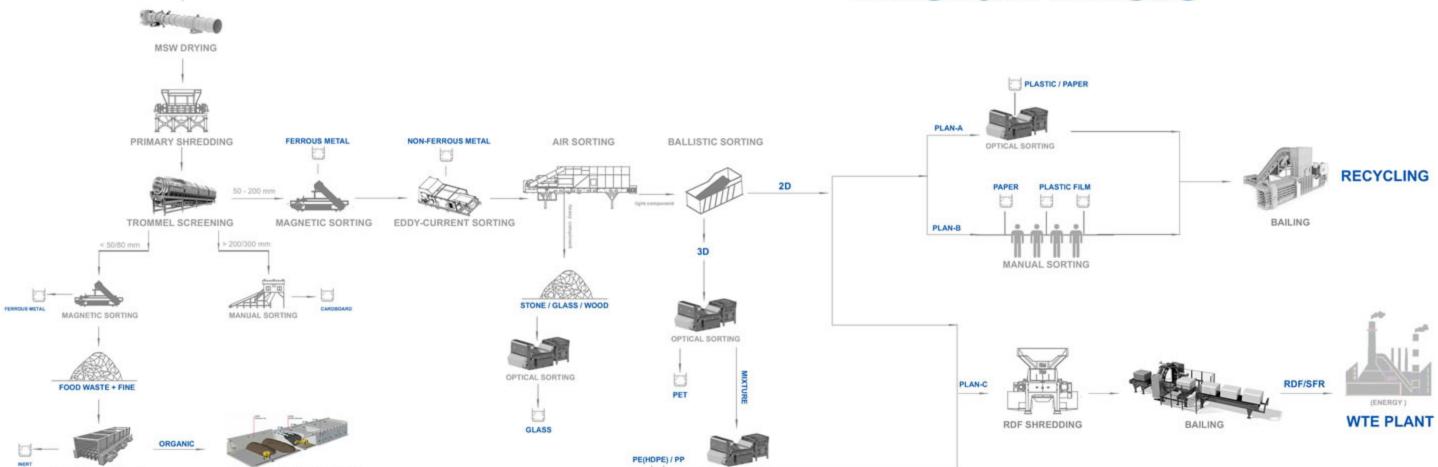




STAR TYPE SCREEN

COMPOSTING / BIO-DRYING

# SIMPLIFIED FLOWCHART DESIGN BASIS



# **MSW**



mswhandle@gmail.com