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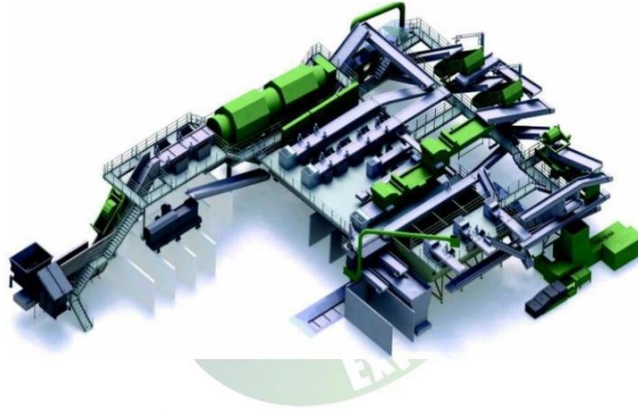
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مكتبه خريطة موزة ليبيا - طرابلس - رقم الهاتف\_01, 091733319 - رقم الهاتف\_02, 0913103162 - رقم الهاتف\_03, 0923103162

Address: Al-Masira Al-Kubra Street / Opposite Al-Jumhouria Bank - Tripoli (Libya)

العنوان، خارج المسيرة الشورى، مقابل مسرحة الجمهورية - طرابلس (ليبيا)

### For Our Clients In Libya



شركة مدينة الإسكندرية والتصدير Municipal Solid Waste Handling and Treatment Project

*Miza Company For Import & Export*  
[Executive Summary]



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## 1、BriefIntroduction

Dezhou Qunfeng Machinery Manufacturing Co., Ltd is one of the leading Designer andManufacturer of Recycling system, balers and garbage compressor with Pre-technology.

Product range:

- Waste sorting system
- Garbage compactor
- Balers

## 3、Technical Illustration ofEquipment

### Waste Sorting System Process Parameters and Main Principles

- 3.1. Waste component: Homeresiduals.
- 3.2. Waste treatment capacity: 100TPD, single running line, with 10 actual operation hoursdaily.
- 3.3. Feeding form: Feeding byloader.
- 3.4. Total power of the system: 240kw
- 3.5. Basicrequirements:

a.The equipment shall have reasonable type and structure design. The automatic waste treatmentlevelshallbeimproved,andthelaborforce'soperationintensityshallbereduced.

The whole system shall have smooth material operation and uniform feeding, which shall be free from jamming and blocking. The equipment connection points shall have reasonable connection mode, and there shall be no material leakage or accumulation. In addition, the material conveyance shall besmooth.

b..All structural parts shall be subject to shot blasting treatment, which shall reach grade sa2.5 of GB8923. In addition, the structural parts shall be sprayed with the high-performance anti-corrosive coating within the specified time, so as to ensure that the whole system equipment will have anti-corrosive capacity, and conform to the poor environment requirements of the waste treatmentequipment.

c.All the belt conveyors shall have the non-loaded sweeper, head sweeper,rollersweeper and tail tension device.

d.All conveyor belts have good abrasion, corrosion and alkali resistance. To ensure the safety of operation, the belt machine is equipped with a manual pull rope switch. All belt machines have automatic rectifying and tensioning device. Each conveyor is equipped with emergency stop button and the normal service life of belt is not less than 2 years (choose Qingdao huaxia).

e.All the equipment shall be equipped with the manual/automatic changeover switch and emergency stop device, so as to ensure the personal safety and safe emergency stop of the



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equipment. The emergency stop switch shall be located on the easily accessible position of the equipment, so as to avoid wrong startup due to the production staff or during the maintenance or electric shock accident.

f. The fully automatic control shall be realized during operation. Use the programmable controller as the main controller to send the signal to be collected on site and the signal of the contactor to PLC input end, PLC output control contactor and intermediate relay (with Schneider electric appliance), and then control the three-phase power equipment. As the signal lamp is selected for input and output, the site operation box and the upper machine can

very intuitively display the equipment operation, stop, fault, etc.

g. During the design and manufacturing of the overall equipment, the customer's convenient use and maintenance shall be fully considered.

Light material (plastic) conveyor mode is B1000×9000,  $\alpha=18-0^\circ$ , frameset,  $V=0.3m/s$ ,  $P=4Kw$ , packaging tape CC-56. The conveyor should adopt a frame type belt conveyor specially designed for waste characteristics. Foundation is not necessary, the expansion bolts are fixed, and the installation is convenient, and no leakage in transferring process. The transmission is equipped with the shaft type speed reducer, with longer service life, high transmission efficiency, low noise, low heat, and compact structure. The external driving cylinder is used to increase the friction force by using high abrasion resistance. The bearing adopts the roller bearing (producing area: Harbin), the bearing seat is all used in labyrinth seal and lip sealing ring structure, the tape joint adopts vulcanization joint. The head is equipped with a spring sweeper, the tail with a drum sweep and an empty section sweeper. To prevent the belt from running off, the machine is equipped with regulating upper and lower supporting roller. The frame adopts truss structure with seal plates on both sides and guide trough. Both sides of the belt are equipped with a close pull cord switch, and each conveyor is equipped with an emergency stop button.  $a=13$ . The power of the reducer is: 4KW.

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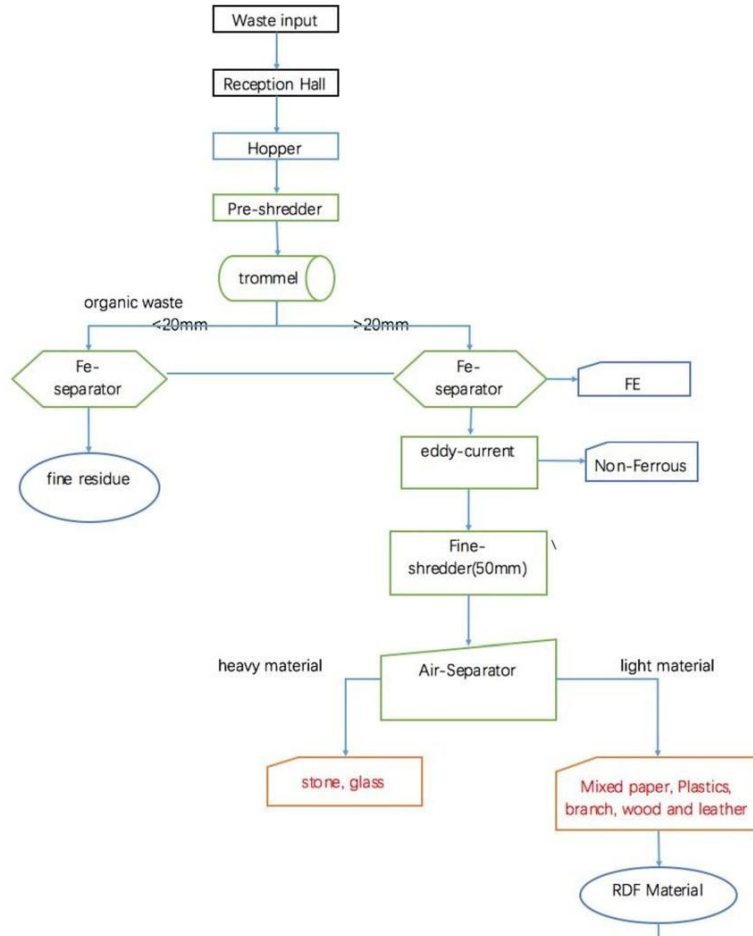
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## 4 Technological Process







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## 5. Technical Parameters of Waste Sorting Equipment

No.	product name	Specification	QTY	Power	Unit Price
				(KW)	(USD)
1	Primary Shredder	Installation capacity: 37 KW*2, hydraulic pump + low-speed high-torque hydraulic motor (with high torque, low energy consumption, long life, high stability, operating life is more than 80,000 hours). cutter material: Imported NiCrMo high alloy steel, high strength, high toughness, strong impact resistance, not easy to break the knife, resistant to strong acid and alkali corrosion. Handling capacity is 10T/H, the size of waste within 200mm after disposed.	1 set	74	195000
2	Feeding conveyor	Specification: B1000*14000mm, frame type, V=0.1~0.3m/s, motor:5.5KW, tape CC-56, B10*(4+1.5), no need built-in fittings	1 set	5.5	20000
3	Rotary Trommel screen	Specification: φ2000×7000 mm Manganese steel mesh, sieve pole:80mm Driven by rubber wheel, screen mesh is made of stainless steel plate (mesh plate can be replaced) Thickness of plate: 5 mm , a=8. Dynamo: 22KW, n=10 - 17rpm frequency control	1 set	22	88000
4	Magnetic separator 1	Specification: RCDD-10, suitable for belt width B1000, magnetic field intensity≥900Gs, rated hanging height:320mm.Power: 4KW	1 set	4	14000
5	Magnetic separator 2	Specification: RCDD-10, suitable for belt width B1000, magnetic field intensity≥900Gs, rated hanging height:320mm. Power:4KW	1 set	4	14000
6	Oversized belt conveyor-No.1	Specification: B1000*10000mm, frameset, a=8° , v=0.8m/s. tape CC-56. reducer: P=4KW	1 set	4	15000
7	Undersized belt conveyor-No.1	Specification: B1000*6000mm, frameset, TD75 Model, a=18° . v=1.2m/s. tape CC-56. reducer: P=4KW	1 set	4	8000



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8	Undersized belt conveyor-No.2	Specification: B1000*10000mm, frameset, TD75 Model, a=18° , v=1.2m/s, tape CC-56, reducer: P=4KW	1 set	4	13000
9	Eddy current separator 1	Non-ferrous metals can be sorted out, Installation capacity: 11KW	1 set	11	77000
10	Air separator	QFFX-1000, Power: P=24KW, with one conveyor. Capacity:10tons/h.	1 set	27	50000
11	Conveyor 1 for heavy material	Specification: B800*6000, frameset, a=18° , v=0.8m/s, P=3KW, tape CC-56, B1000*4(4.5+1.5)	1 set	3	9000
12	Conveyor 1 for light material	Specification: B1000*6000, frameset, a=18° , v=0.8m/s, P=3KW, tape CC-56, B1000*4(4.5+1.5)	1 set	3	9000
13	Secondary Shredder(for RDF)	QF-2000: Capacity:10T/H Installation capacity:37*KW*2, Imported NiCrMo high alloy steel, high strength, high toughness, strong impact resistance, not easy to break the knife, resistant to strong acid and alkali corrosion. The shredder adopts shear crusher, fully automatic motor drive, mainly shear crusher, through the tooth cooperation between the crushing knife, the solid waste will be broken into the appropriate shape and size. The crushing function can meet the crushing requirements of soft material, hard material and flexible material winding at the same time, and ensure that when crushing a variety of materials at the same time, no material blocking, material jam.	1 set	74	140000
14	Frequency control cabinet	Complete equipment	1 set	0	40000
15	PLC or DCScontrol cabinet	PLC Complete equipment (taiwan , Taida)	1 set	0	66000
16	Maintenance platform	Single side pass through by conveyor, double side pass through by rotary trommel and other equipment.	1 set	0	50000
17	Subtotal			239.5	/
18	Total price for sorting system (EXW)				807,000



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### 6. Operating Cost of Equipment

200 daily handling capacity and 10 hours per day.

6.1. Total install capacity of the whole equipment is 680kw, power consumption is 500 kilowatt-hours per hour, and 5000 kilowatt-hours per day. Each kilowatt per hour is 0.1 dollar, so the total amount of one day is 500dollars.

6.2. Transformer use 300KW

6.3. Number of Working stuff: 7

6.4. Plant area(for equipment): W40\*L80\*H12 m

### 7. Staff cost

Project Staff costs		
	No. of people	Annual wage(dollar)
Operator	2	\$ 15,400
Drive of loading	2	\$ 15,400
Mechanical Technician	1	\$ 15,400
Electrical Technician	1	\$ 16,300
General clearer	1	\$ 15,400
	Total fee	\$ 139,500

(For reference only, please calculate according to the actual wages of local workers)



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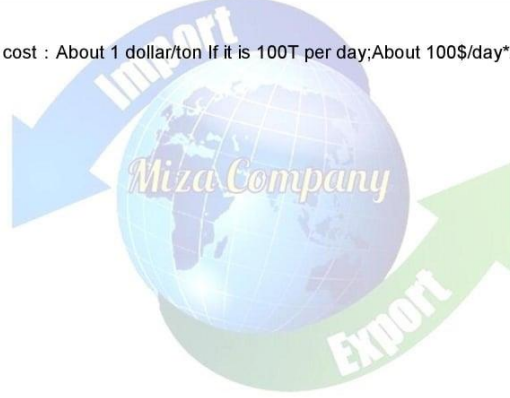
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### 8、 Electrical cost

Project Electrical cost				
	Power ( Kw )	Working time (hours)	Daily consumption ( Kwh )	Electrical fee(dollar)
Total equipment	328 (80%)	10	3280	0.1
Total consumption ( day )	3280			
Total consumption ( 300days )	984000			
Total electrical fee(dollar)	98400			

Others operating cost : About 1 dollar/ton If it is 100T per day;About 100\$/day\*360=36000dollars .



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**For the Market RDF price is about 138 USD/ton**

**200ton/day waste sorting system can produce about 170 tons RDF**

**Total profit per day of RDF is about 23,460 USD**

**That is 7,038,000 USD per year (300 days)**

NO.	Program part	Price (US dollar)	Notes
1.	Waste sorting plant	957,600	Price Term: EXW
4	Delivery Time	2-3 month	



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## 10. Components of the Waste Sorting Equipment

### 10.1 Waste feeder machine

The Qunfeng Metering Bin Feeder can be a part of the automatic bag open and waste feedingsystem. Bagged recyclable material is loaded over the side of the hopper onto bin floor. The bin floorwill move material at a rate set by the PLC controls to allow accurate metering of the material. Thebagged material is guided onto the metering chain conveyor or under the bag opener.

The Qunfeng Metering Bin Feeder also provide numeroufeatures that increase performance and

decrease maintenance requirements. Qunfeng has developed a strong platform to precisely regulatematerial flow through the combination of a variable speed conveyor and a counter-rotating drum atthe discharge end, eliminating black-belt and keeping your system operating at peak levels. The newdesign's hallmark is its modularity: the design allows a wide range of mix-and match features whichcan transform the Metering Bin feeder to match your own operational demands. From base featuressuch as extra thick walls to the steel belt and bag-ripping teeth of the Liberator Class, Qunfeng offersa special waste feeder without equal in the market.

#### Benefits

- Increases throughput and system capacity up to 20%
- Provides a consistent material feed into the system
- Maximizes system sorting and screen efficiency
- Frees up loader operator to perform other tasks
- Reinforced side-wall panels and heavy duty construction to maximize durability and uptime
- Easy retrofit into existing facilities
- Available with 60-HP driven drum to power through the toughest loads
- Reinforced load side and flared back walls for ease of loading and durability





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### 10.2 Shredder:

The shredders are useful machines for the volume reduction of bulky waste such as reams of paper, paper materials, bumpers, tires, refrigerators and the shredding of different materials such as scrap iron, aluminum, copper, plastic as well as municipal solid waste and industrial waste.

The application of shredders is essential for eco-centers, landfills, wrecking and all the organizations that work in the field of waste management and recycling. Great efficiency and performance, sturdiness are the design features of our shredders. They are indicated in the treatment of any type of solid waste and come in a full range of models able to satisfy the different production requirements.

The low number of turns allows to reach very high torques with very low fuel consumption. The use of special steels for the blades guarantees particularly long life cycles, with considerable savings on spare parts. The unique blade allows optimal use of upstream sorting facilities or in the treatment of MSW.

Our technology allows you to make the most of each processing stage to obtain homogeneous products suitable for transport and undergo further processing: ideal for recycling resources, materials and energy.





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### 10.3 Trommel screen:

Drum to sort the Recyclable Wastes by Hole Size

Trommel screen is to sort the waste by hole size of the long drum. Different sizes of the holes are

sorting the materials of different types (less than 30mm for Inerts like sand, broken glass, ceramic

and stone, 30mm to 200mm for recyclable plastics and 200mm to 300mm for paper and big plastics.)

The knives installed in the screen drum are splitting and shredding bags, and keeping the materials

from being interwined. Trommel screen is typically installed as the first machine of the sorting line in

MRF (Material Recovery Facility) or MBT (Mechanical Biological Treatment) which is right after the

bag splitter or the crusher.

Characteristics and Advantages

1. Sorting different sizes by the drum holes
2. Sorting different sizes by the drum rotating speed
3. Excellent sorting for organic materials from mixed wastes
4. Separating wastes of large size
5. Sorting inerts of small sizes
6. Cover for dust prevention
7. Side door for easy maintenance
8. Suitable pretreatment for Automatic Sorting Machine Line

Application

1. Organic material separation from mixed waste
2. Sorting materials by size
3. Splitting bags of waste materials
4. Pre-treatment for air shifter and ballistic screen
5. First screen for MBT and MRF





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### 10.4 Eddy current separator:

System to Separate Non-Ferrous Metals by High-Frequency Magnetic Field. Eddy Current Separator (Non-Ferrous Separator) is to separate non-ferrous metals by the induction principle (eddy current) of a high-frequency magnetic field. The powerful moving magnetic field on the surface of the drum is generated when the powerful permanent magnet inside the drum rotates at high speed, separating three types of materials: iron, non-metal, and nonferrous metals such as aluminum and copper. The permanent magnet drum of high capability rotating inside the conveyor belt at high speed induces the eddy current in nonmagnetic nonferrous metals moving on the drum to generate a magnetic field. This force is exerted in the opposite direction to gravity, and nonferrous metals bounce off by repulsive power from mixed wastes during movement on the conveyor belt. Non-Ferrous metals with larger surface areas, lighter weight and higher conductivity are usually well separated.

This separator requires virtually no maintenance and guarantees the stable separation for long term operation. The Non-Ferrous Separator is installed together with a permanent magnetic separator on MSW to play an important role for sorting waste.





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### 10.5 Conveyor:

System to Transport Wastes and Products with Power of Electric Motor

Conveyor is to transport materials and wastes on belts. The conveyor belt is made of textile, rubber, plastics, leather and metal, and the belt has the shape of a continuous loop to transfer objects. The belt is moved by the drive roller mounted on the bottom of the conveyor or at one end of the conveyor. The conveyor is moved at a defined speed by connecting a reducer to the motor.

The types of conveyors include chain conveyors, sliding belt conveyors and roller belt conveyors, and custom designs are available.

Conveyors are used for various applications such as the logistics facility in warehouses, and process facilities such as MRF and MBT.

Characteristics and Advantages

High compatibility due to modular design

1. Solidity from laser cutting construction
2. Safety cover
3. High performance SEW motor mounted
4. Quality belt resistant to oil and grease
5. Scraper mounted
6. Fast belt moving speed up to 6m/s
7. Various Width up to 3,000mm

Application

Supplying and moving of wastes

1. Transporting products in warehouse
2. Transporting raw materials
3. Transporting bulk products
4. Safety conveyance of small and large materials
5. Fast conveyor for automatic optical separator
6. MBT and MRF process facilities





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### 10.6 Second shredder:

The shredders are useful machines for the volume reduction of bulky waste such as streams of paper, paper materials, bumpers, tires, refrigerators and the shredding of different materials such as scrap iron, aluminum, copper, plastic as well as municipal solid waste and industrial waste.

The application of shredders is essential for eco-centers, landfills, wrecking and all the organizations that work in the field of waste management and recycling. Great

efficiency and performance, sturdiness are the design features of our shredders. They are indicated in the treatment of any type of solid waste and come in a full range of models able to



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satisfy the different production requirements.

The low number of turns allows to reach very high torques with very low fuelconsumption. The use of special steels for the blades guarantees particularly long lifecycles, with considerable savings on spare parts. The unique blade allows optimal useof upstream sorting facilities or in the treatment of MSW.

Our technology allows you to make the most of each processing stage to obtainhomogeneous products suitable for transport and undergo further processing: ideal forrecycling resources, materials and energy.



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### 10.7 Air separator

System to use the Gravity of Wastes with Air Air separator is to separate wastes according to the gravity by blowing air onto the wastestream.

Waste stream is supplied into the separator by a conveyor, and heavy wastes with solid shape such as glass bottle and plastics are dropped to the bottom of the separator. Glass Bottles First, Plastic Bottles Second and Light Wastes such as film and paper are blown by airstream from the blower, and separated by the vacuum drum or screen conveyor inside theseparator. Dusts are collected by the cyclone and the air is circulated inside the screen.

The jet pressure and the volume of wind from the blower are adjustable, and you can optimize the sorting efficiency and purity depending on the separation purpose to sort glass bottles, plastics, cans, films and papers. Cyclone can absorb and purify the polluted air during the waste separation process, which will improve the workplace environment and reduce the air pollution.

Air Separator is typically installed right before the automatic sorting machines of MRF (Material Recovery Facility) or MBT (Mechanical Biological Treatment) to sort out the film, paper and dust for high efficiency and purity of Automatic Sorting Machines.

Benefits:

1. Separating materials of various gravities air volume
2. Effectively separating heavy wastes (Glass Bottles)
3. Improving workplace environment by dust collection and air circulation through the cyclone
4. Excellent absorption drum and screen for selecting film, paper and dust
5. Sorting in Four Category.





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### 10.8 Pelletizer:



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