

LEAD WASTE INNOVATION



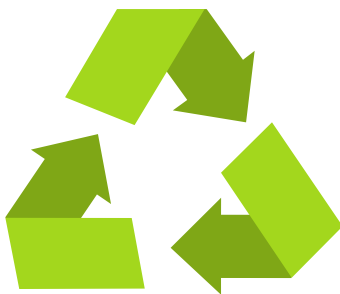
CAN INTERNATIONAL AS
BERGEN . NORWAY
2020



ABOUT US



CAN International Group is headquartered in Norway with the commercial presence in Asia, America, and Europe. The company main business include waste management consultancy, MRF and renewable project management, and equipment/system implementation. The company's goal is to build a green solution bridge between Europe and Asia for helping the developing countries' municipalities and businesses for better living environment while achieve the sustainable growth.



CAN International AS is a registered vendor for United Nation and exclusively represent several leading European brands in Asian market.

WHY CHOOSE US?

Compared to western world with the advanced waste collection system, developing countries with the largest populations are facing the tremendous challenges to facilitate an effective and workable waste management infrastructures. Local government often lacks resources and knowhow to design a customized waste management system for adapting to local conditions. What is the best practices for waste management in western countries is not guaranteed to run successfully in developing countries. The determinant factors such as demographics, social cultural and living habits, as well as macroeconomic policies are impacting the decision makers to develop the waste management solutions. From our previous projects we implemented in Asia like China, we had accumulated the deep understanding on how we can utilize the best practices, technologies and system solutions from the advanced countries and transform them to customize for meeting the local needs.

OUR MISSION

With the utmost passion to delivery our customers with the excellent services and innovative green solutions for their satisfaction.

"CAN stands for China, America, and Norway with my life experience and CAN-do attitude towards environment protection beyond border and gender differences."

- Anna Zhao, founder and CEO





SMART WASTE SORTING



The Smart Waste Sorting System is designed for centralizing the waste collection in the residential areas in urban cities. The system features:

- AI driven face recognition system for registrants
- Touch on screen for operation
- Weighing system
- Sorting containers per waste type
- Full level sensor for warning
- Solar powered operation
- Cloud based and smartphone App
- Payment schema
- Real time waste data KPI performance review



ABOUT THE INTERNET OF BIN



Internet of Bins is the cutting-edge management system developed by Germany company SSI Schafer. The platform DISPODO is one of the major drivers of digitalization. With the internet of Bins (IoB) SSI Schafer started to define a new standard of intelligent processes for bins and containers. The IoB bin standard enables residents to connect easily to the municipality by the help of an adjustable QR code and the waste collection company can verify services by the integrated and standardized RFID tag in the handle of the bin. The On-Board solutions are designed to meet the specific requirements of different applications. All these information end in the customer oriented digital platforms DISPONDO where for example asset management, route planning and dispatching is organized, providing transparency and flexibility to operations and connecting the different solutions in place.



DISPONDO

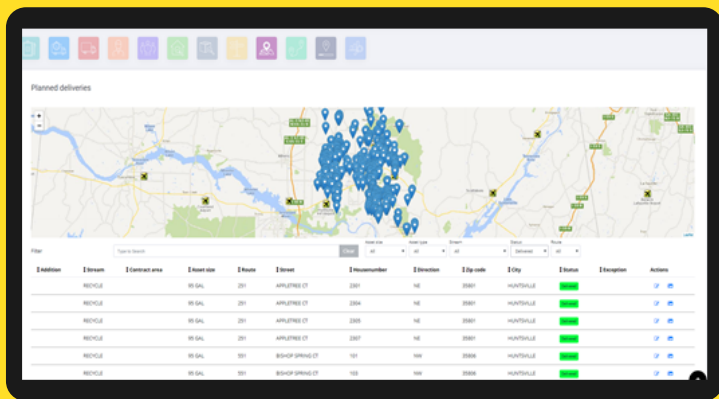
Waste Management Platform for Efficiency

SOLUTION

DISPONDO is the ultimate end-to-end solution for asset management, service verification and operational planning. The platform is Cloud based server enabling all operative processes in your waste management digitalized.

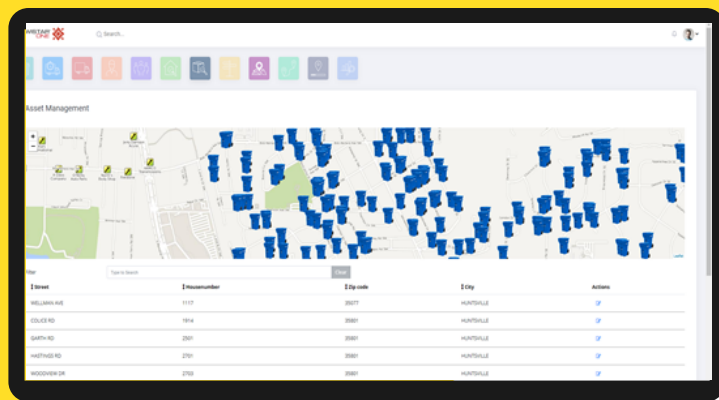


DISPONDO - FOCUS ON WASTE OPERATION EFFICIENTY



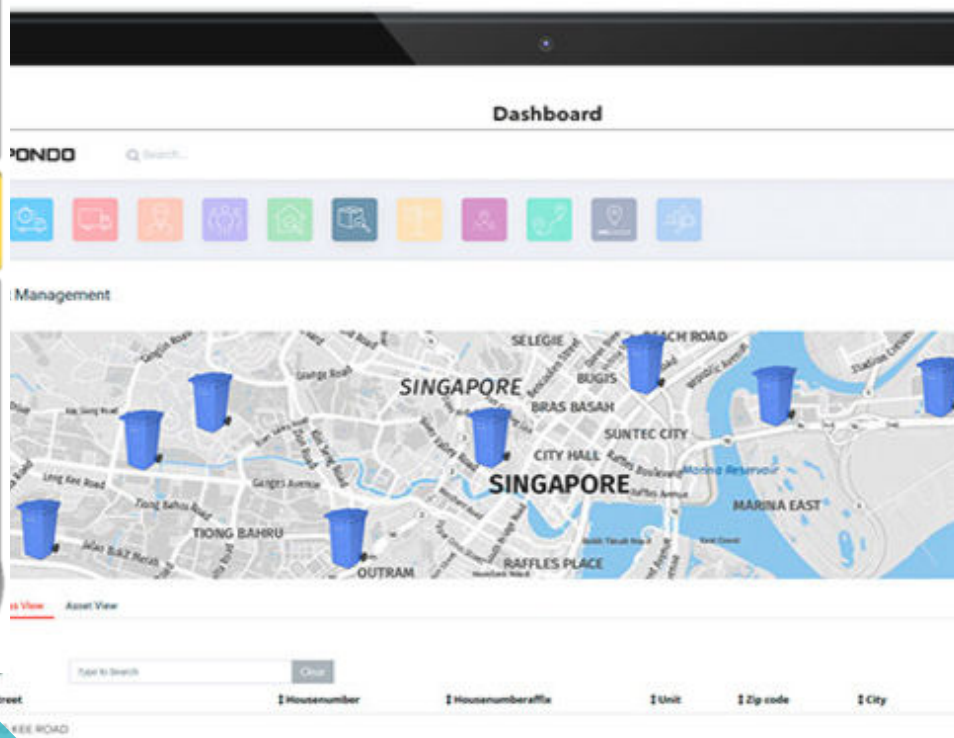
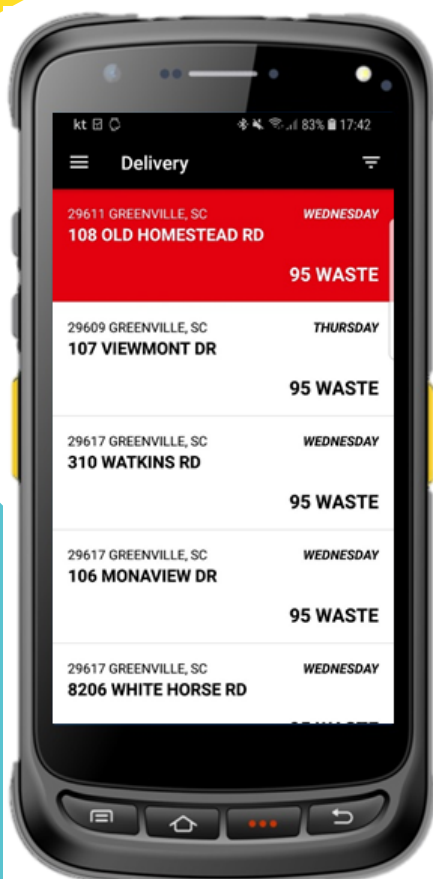
PRECISE PLANNING, COMBINED WITH LIVE PROCESSING

- Comprehensive A&D planning tools
- Managed delivery process
- GPS/RFID tagging
- Barcode tagging
- Real-time performance monitoring via MISTAR



Intuitive asset management with integrated mapping functionality to visualize deployed assets.

- Real-time locate bins
- Update bins collection status
- Add works orders with customers/address
- Modify routes





WHY A MAKEOVER?

Industry 4.0 revolution applied to collection services of MSW for leading the world toward circular economy.



RFID TAG

A passive transponder with a unique code that is detected by the antenna at reading distance. You can schedule the delivery and assign the identification code of the TAG to the user identification number. It is writable and it allows the overwriting.





ON BOARD DEVICE

UHF frequency multiple reading system. Tags reading up to 5 meters distance and up to 300 km/h in motion. Additional information to be linked to the TAG or be geo-referenced.



Cab Monitor



Camera Integrator



Data Transmitter Box



Weighing system



**RFID Reader
on Truck Lifter**

CASE STUDY

SSI Schäfer and LUBO entering the Chinese market, helping environmental service providers to improve their operations.



CHINA

The Case

Due to new environmental goals of the Chinese government, improvements within the daily operations is necessary for all environmental service providers.

Especially the generation of data concerning the amount of waste per region, volumes and amount of bins, tour data of waste collection trucks as well as information concerning unforeseen events with the help of on-board-cameras are the main focus of the case. Accompanied benefits, such as the possibility to guide tours, identifying bins at their location as well as measuring the segregation level of waste per district are of great value for further progress.

Using the IMELO Service Verification Advance UHF as an onboard solution, allows the dispatcher and the municipality to track the current status of the collection for each vehicle and therefore creates new standards for a clean & green city concept within China. Intelligent trucks and bins by SSI Schaefer are therefore key to the success of an ongoing enhancement of the whole branch within the Chinese market.

The Project

In order to implement all features of the service verification system, the project had to undergo the following steps:

1. Retrofitting of the bins with UHF transponders
2. "Marrying" the bin to the transponder for service verification
3. Equipping the waste collection truck with the complete hardware
4. Translation of the software surface into Chinese
5. Set-up of the server for the IMELO Dispo software in China
6. Training of the employees & key-user

Thanks to the great teamwork between SSI Schaefer and our Chinese partner LUBO, facilitated by CAN International AS (Norway), the project was well planned, efficiently executed and successfully implemented. Further add-ons are now planned in the area of weighing systems as well as the integration of smart devices, such as fill-level-sensors, in order to enhance the service even further.



SCHAEFER



MACHINE LEARNING

MATERIAL RECOVERY FACILITY

32.987
13.083
45.012
37.081
91.379

73.871
93.034
63.045
96.781
16.471

87.012
34.091
56.781
43.983
32.987



13.083
45.012
13.083
45.012
37.081
91.379
16.045
73.871
96.781
16.471
87.012
34.091
56.781

FUTURE AI MRF



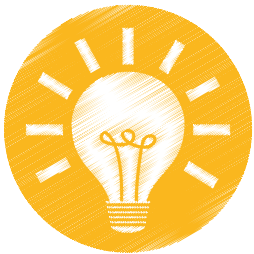
ROBOT AUTOMATION IN WASTE TREATMENT

Robotic waste sorting systems are autonomous, multitasking, learning and scalable systems that can operate tirelessly 24/7. Robotic systems capable to separate specific materials are already commercially available for different waste streams. The robot recycling revolution is driven most importantly by significant cost savings generated by process efficiency, and improved revenue streams from high-purity recyclables that are now more diverse, thanks to unique recognition capabilities made possible by artificial intelligence.

INNOVATION ON MRF SORTING

Picking AI S4.0 features a sorting system with high speed and high precision. It specializes in sorting large quantities of mixed, stacked and hazardous materials. Picking AI S4.0 is suitable to use in the 3R's of waste management (Recycle, Reduce and Reuse), recyclable re-utilization, as well as treating other varieties of waste, including hazardous solid waste, construction waste and electronic waste.

PICKING AI S4.0



- Light: Flexible onsite installation
- quick: 4,000 picks/h (1 robot)
- Accurate: >90% sorting accuracy
- Practical: each robot can sort 6 types of materials

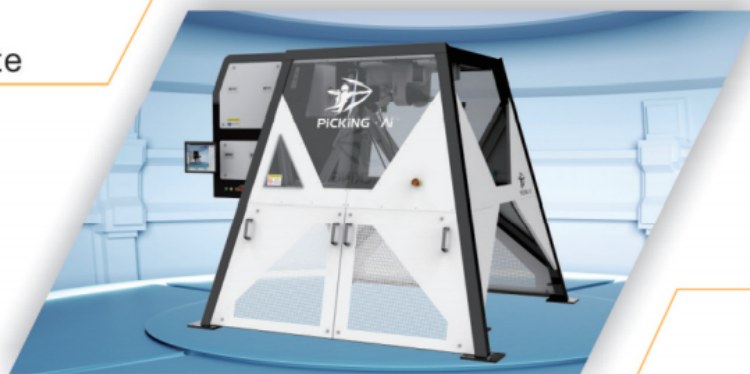
Plastic Disposable Items

Soft Packaging Waste

Paper Waste

Glass Bottles

Pop Cans



Textile Waste

Shoes

Wood Waste

HD-PE&PET

Plastic Waste

SORTING BEYOND EFFICIENCY

PICKING AI S4.0 CHARACTERISTIC

PICKING AI S4.0

- AI-based sorting: featured by a combination of advanced technologies including machine vision, AI algorithm, robot control technology, big data analysis and cloud platform. PICKING.AI S4.0 can identify more than 20 kinds of recyclables with a sorting accuracy of up to 90%.
- Stable Operation: PICKING AI 4.0 allows continuous operation 24/7 with a sorting efficiency of up to 4,000 picks per hour (1 robot).
- Rapid Installation: customized and modularized design allows PICKING.AI S4.0 to be used with different conveyor sizes.
- Real-time Status Monitoring: this product features big data collection and analysis function. Our cloud server can help improve the intelligence level and feedback information on product status and throughout, enabling the customers to understand actual operation data without leaving the house.



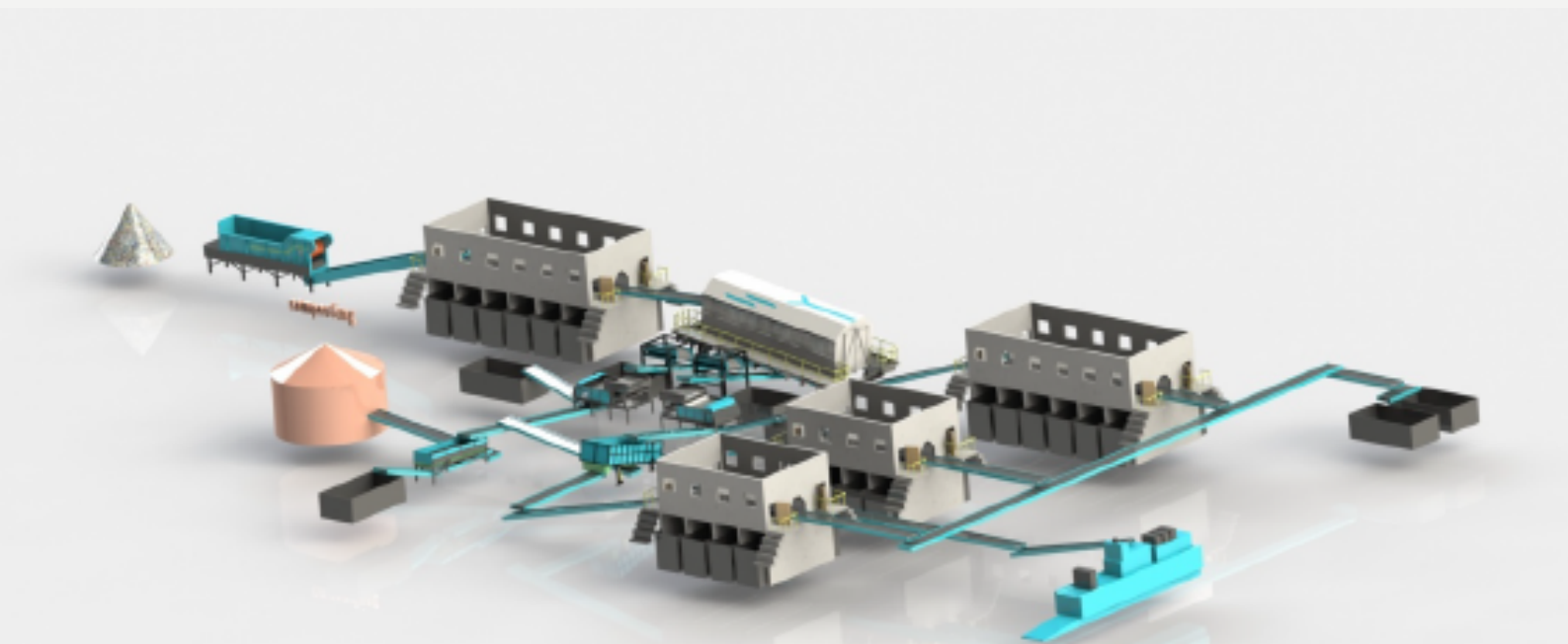
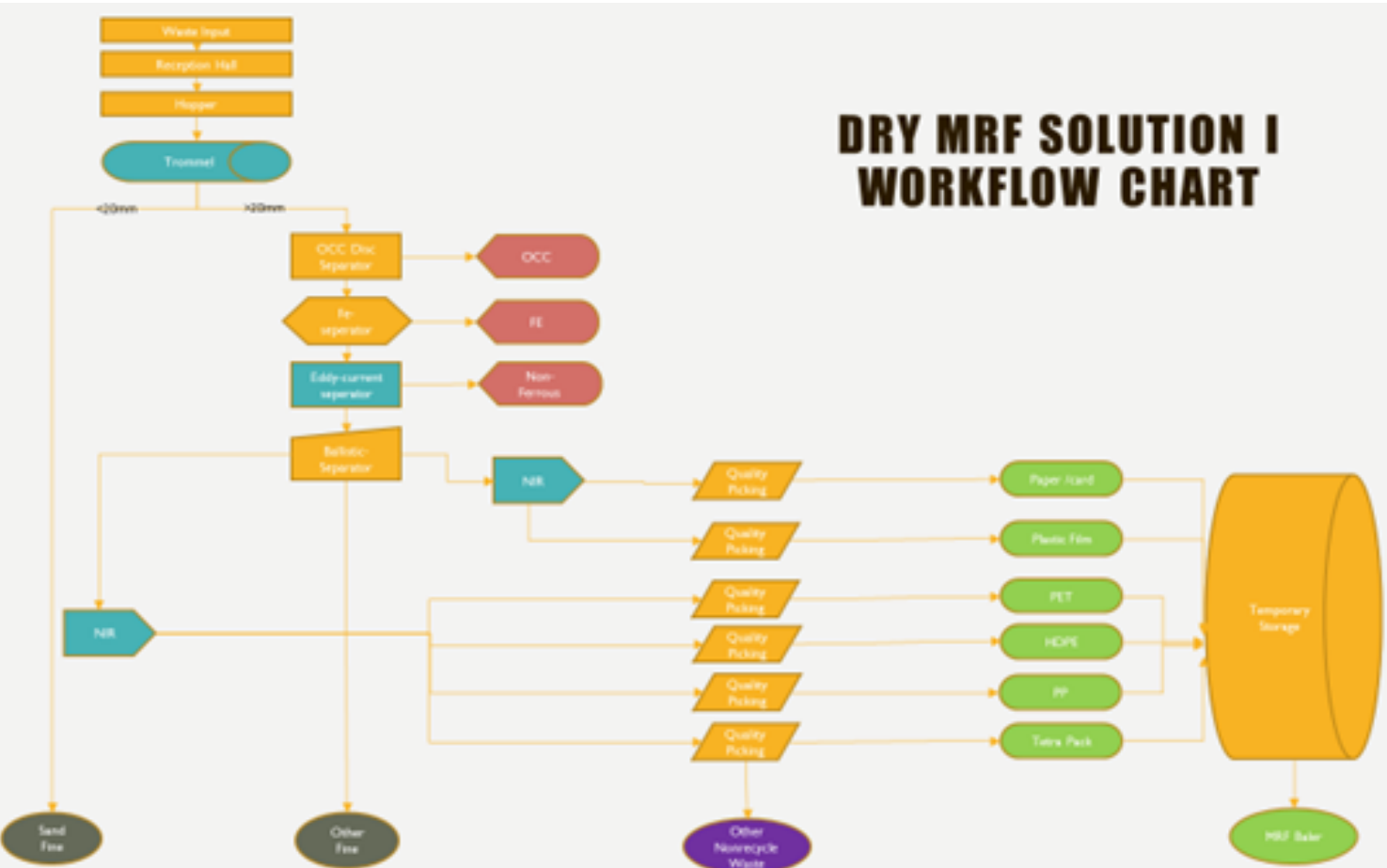
-
- A high-contrast, black and white photograph of a mechanical component, possibly a turbine or engine part. The image is dominated by a bright, glowing light source reflecting off a curved, metallic surface. The background is dark, with some structural elements visible on the right side. The overall effect is dramatic and industrial.



DRY MRF CASE STUDY - MALAYSIA

Project Description

To design, fabricate, supply, delivery, test and commissioning for dry and dirty Material Recovery Facility for 30 T.P.D for Dry MRF to sort plastic, paper, and others waste.



DIRTY MRF CASE STUDY - MALAYSIA

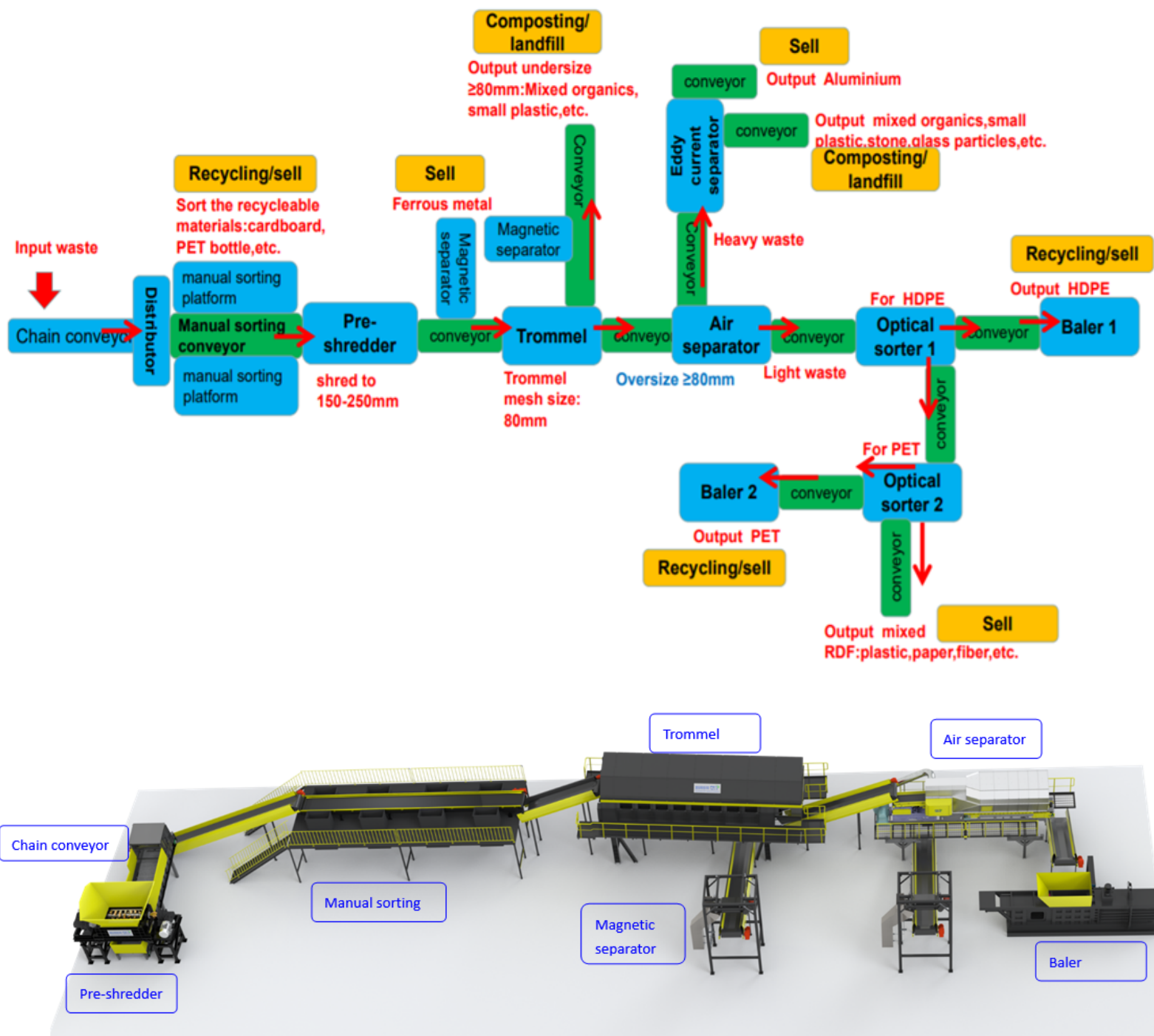
Project Description

To design, fabricate, supply, delivery, test and commissioning for dry and dirty Material Recovery Facility

- 150 T.P.D for Dirty MRF to sort food waste, papers, tetrapak, plastics, diapers, textile, rubber/leather, wood, hazardous waste, others



Single Stream Sorting Solution



WASTE RECYCLING TECHNOLOGY

A FUTURE ORIENTED AND SUSTAINABLE ENERGY SUPPLY IS POSSIBLE ONLY IF THE PARTICULAR ADVANTAGES OF EACH KIND OF RENEWABLE ENERGY SOURCE ARE COMBINED IN AN OPTIMAL WAY TO ACHIEVE WASTE TO ENERGY CIRCULAR.

TURN WASTE TO VALUE

ABOUT THE WILLIBALD BIOWASTE SHREDDER



MS3000 Mini-shark optimized for medium throughput

The compact shredder convince potential customers with its performance and low running costs for small to medium throughputs. The shredder is capable to process various materials with innovative shredding system.





screening.powerful.precise



The Flex-Star 3000 was designed for a precise screening of biological material in one single operation - either in two or three fractions. Various materials, such as biomass, compost, pre-crushed waste wood, bark and wood chips, can be perfectly processed. Even moist and sticky materials can be efficiently and economically screened out.





Innovative TBU-compost-windrow-turner for 3 point linkage for a tractor



TBU 3P Compost Turner provides the powerful turning effect to achieve rapid compost ripeness in high quality, it makes sense to restack precisely the compost heaps vertically. The mobile compost turner for 3-point linkage for a tractor with a minimum of 130 HP engine is a compact and affordable machine with high throughput, which is easy to handle. It allows a turning speed with 0.5 km/h and more for heights of compost heaps up to 3.0 meters.

GREEN SUSTAINABLE SOLUTION

Municipal Waste Recycling

PIONEERING FOR EFFICIENCY

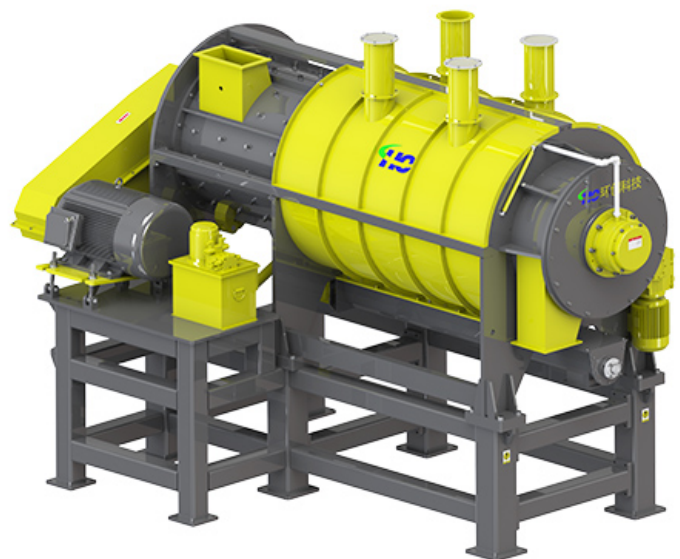


HOUSEHOLD WASTE SHREDDER

The shredder is designed to crush various materials including fabrics, other wastes, nylon waste, biowaste, leather, glass fiber plastic, garden waste, etc. After crushing, the size can be controlled at 6-100mm through a screen. The shredder can treat 5-20 tons per day per customer output requirements.

FOOD WASTE SEPERATOR

The separator is designed to combine a flexible crushing, cleaning, and centrifugal dewatering. The complete slurry separation is achieved. The solid content in the slurry is less than 1.2% (shell, glass, stone), the water content of the slag is less than 30%, and the slurry content of the slag is less than 0.3%. The machine is designed to ensure organic part is fully recycled, thus reducing the further waste and loss.



HP HIGH-SPEED SHREDDER

The machine is designed to meet both the primary crushing of large materials, but also be suitable for the secondary fine crushing in the production line. The flexible design method and continuous practical innovation have gradually formed a series of selective production lines

Municipal Waste Recycling

PIONEERING FOR EFFICIENCY

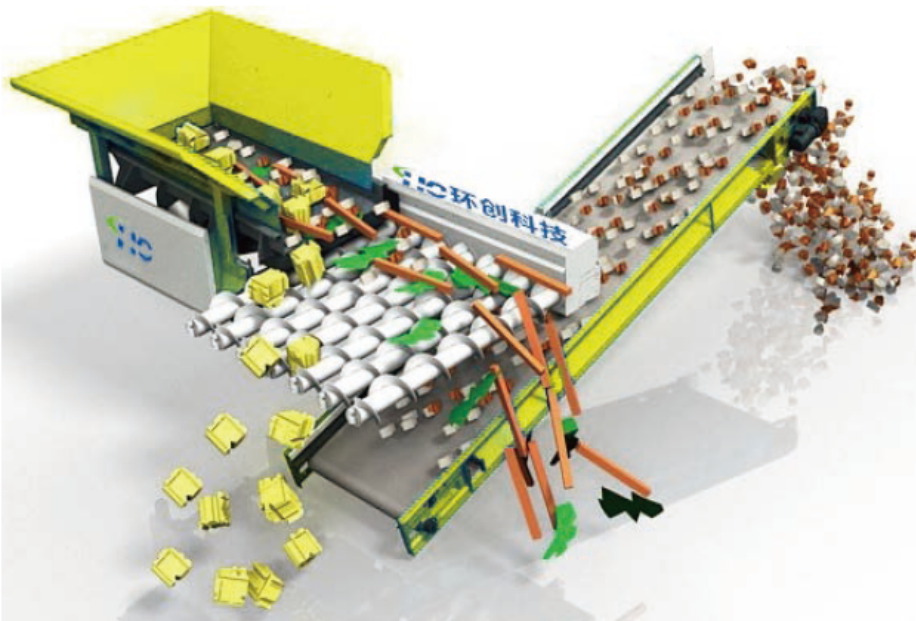


TROMMER

The trommer is designed to screening various waste type with high performance. The screen is 19 degree facing down, and the screen hole is 60mm divided over and under the sieve. Air nozzles are arranged to the sieve plate to separate the light materials on the sieve. The vibration frequency can be adjusted according to the different materials to completely avoid the blockage.

AIR SEPERATOR

The air separator uses the principle of aerodynamics to separate the light and small substances in the material under the combined action of the controllable positive pressure air flow and the negative air flow, and enter the settling chamber, where the material is separated from the air by a settling method. The throughput is up to 15 tons per hour

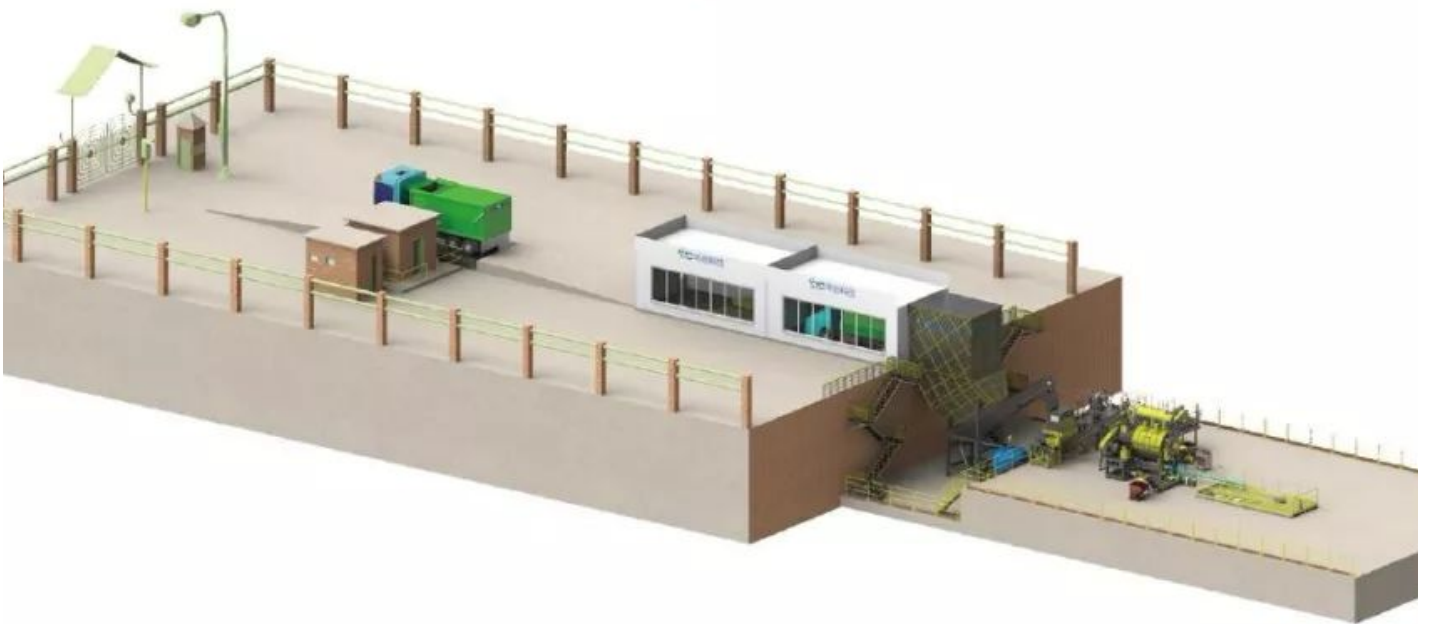


SCREENER

The spiral screening machine is specially designed for the special and complex material of garbage from various hardness, shape, size, and material type. The screen is filtering the size from 10-300mm and the screening speed is adjusted automatically. An anti-blocking and anti-winding automatic cleaning structure is set between each screw shaft.

RECYCLING APPLICATIONS

FOOD WASTE BIOGAS PRETREATMENT CENTER



CONSTRUCTION DEMOLITION RECYCLING CENTER

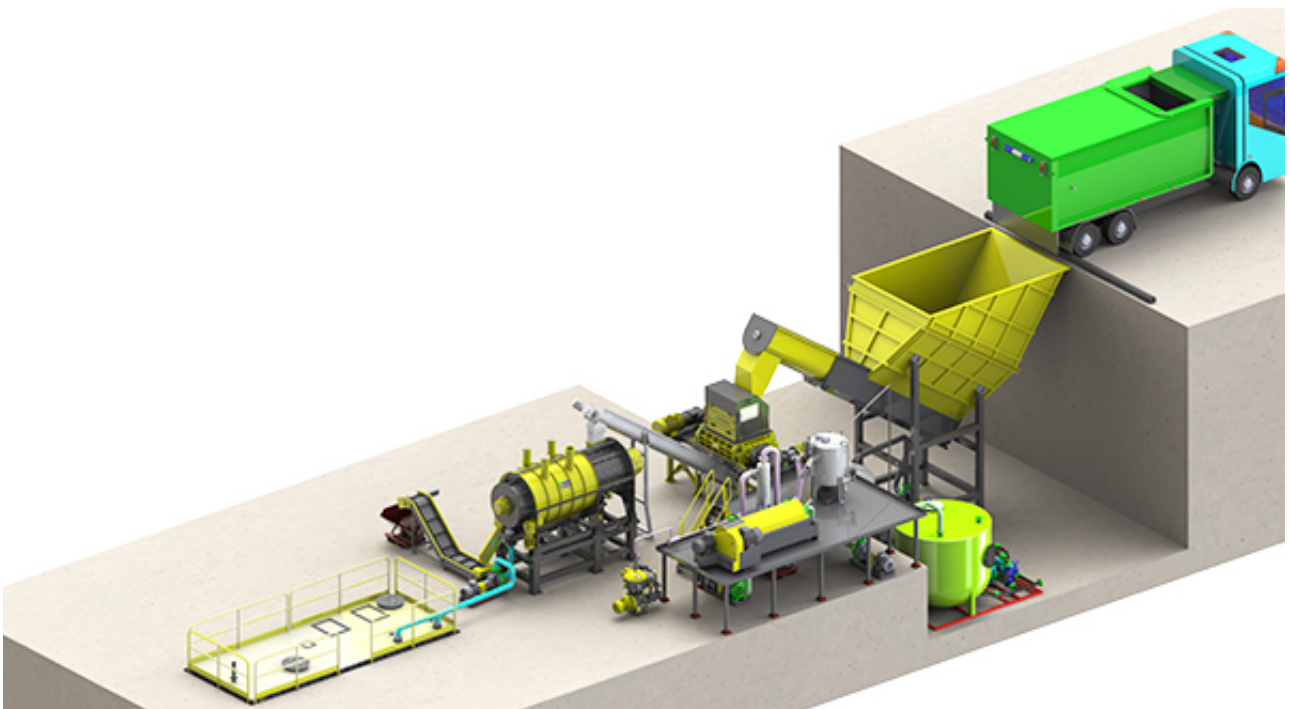


RECYCLING APPLICATIONS

RURAL AREA HOUSEHOLD RECYCLING CENTER



FRUIT & VEGETABLE WASTE RECYCLING STATION

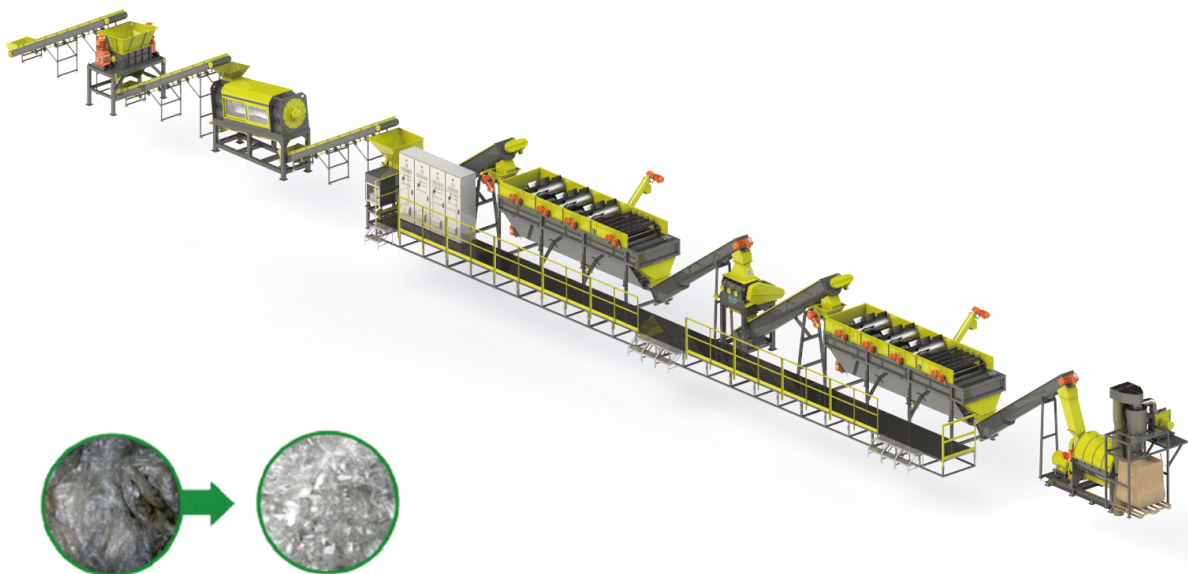


RECYCLING APPLICATIONS

BATTERIES CABLE WASTE RECYCLING CENTER

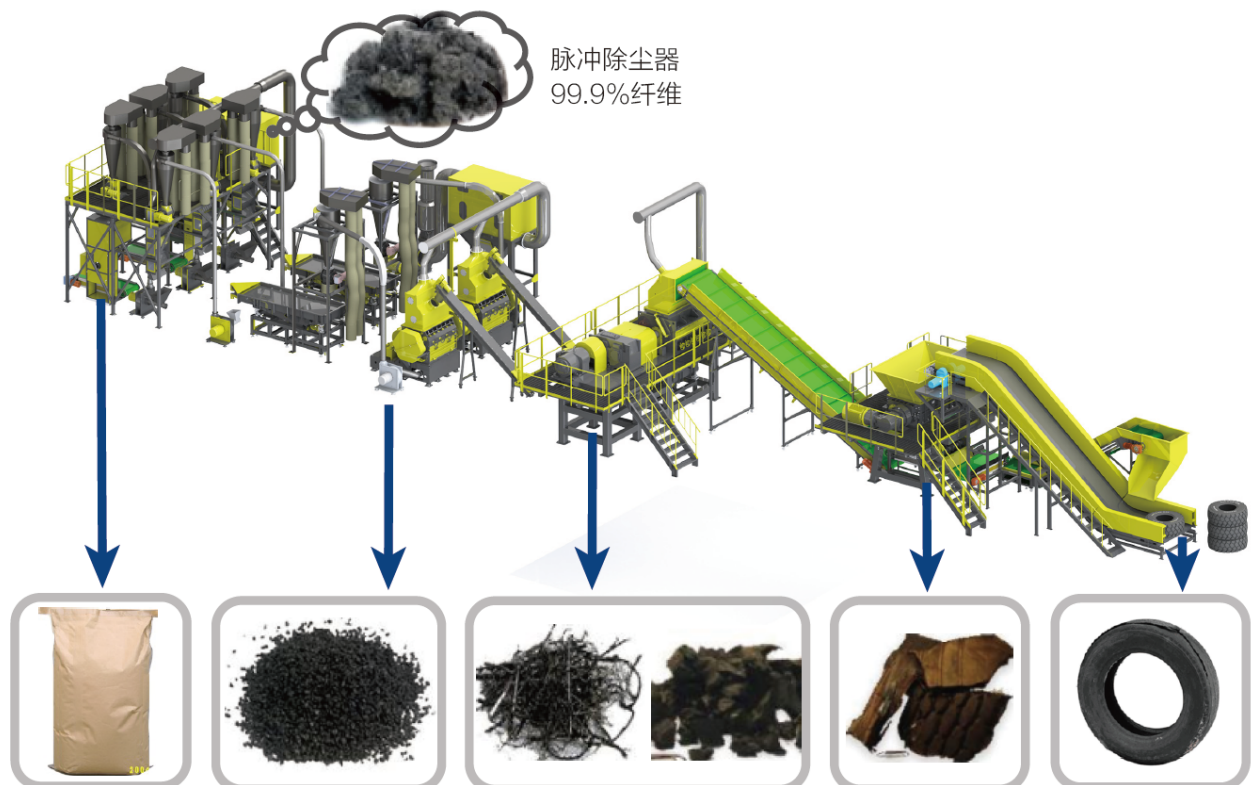


PLASTIC WASTE RECYCLING STATION



RECYCLING APPLICATIONS

AUTO TIRE RUBBER RECYCLING CENTER



MOBILE FURNITURE WASTE SOLUTION





ZERO EMISSION FOR GREEN CITY SOLUTION

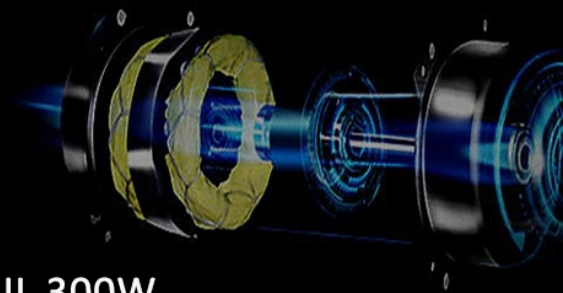


XIAOMI MIJIA ELEC' SCOOTER PRO

- 45km battery life for a long distance trip
- High security 18650 power lithium battery for speed efficiency



**Equipped with energy recovery
for longer battery life**



POWERFUL 300W

FRONT WHEEL MOTOR

300W motor in front wheel with
strong power to take you as far as 45km.

ECO BIKE FOR URBAN LIFE



Green in Details



2021 EEC EBU ELECTRIC MINI VAN

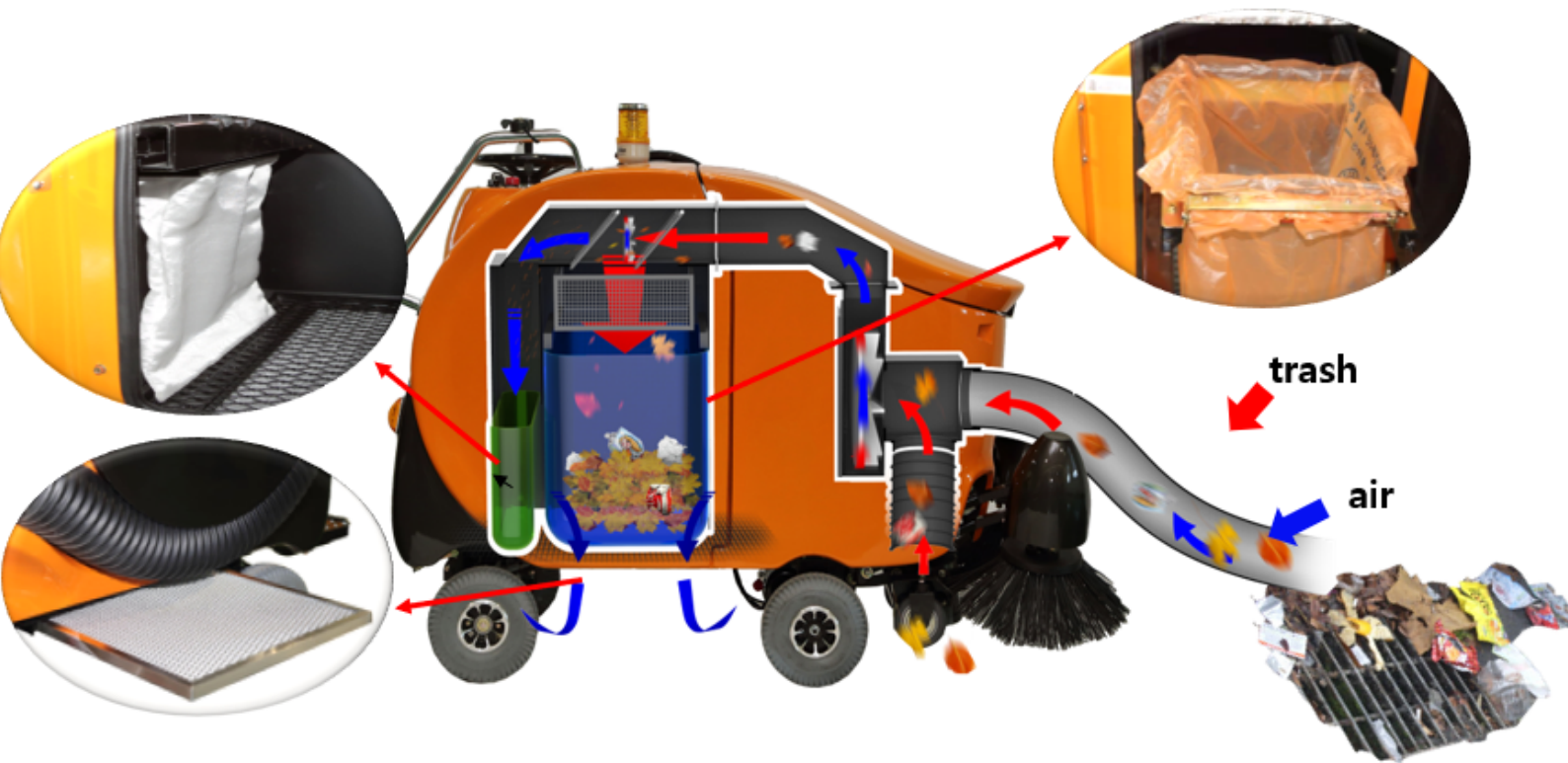
- High speed comfort driving up to 130 km/h
- Stable lithium battery for trip up to 300 km
- European M1 Standard
- Japanese K-CAR standard
- ABS anti-lock
- Keyless (IMMO certificate)
- Full LED combined tail light
- Rear disc brake integrated EPB
- Smart emergency rescue call system



ROAD CLEANING ROBOT



World Award Winner





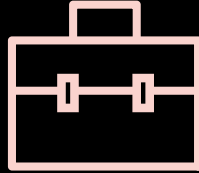
Innovative LNG Engine Mobile Waste Truck

OUR SERVICE CODE



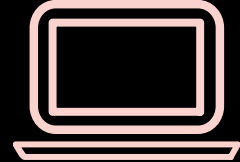
OEM/SOURCING

We provide our customers for sourcing the best supplier for OEM or procurement with our quality control and systematic management. We guarantee the highest standard of products/machines are delivered to meet our customers needs. .



PROJECT ENGAGE

Managing a cross border project is complex and comprehensive. The knowledge of local cultural, language, country's law & compliance is beyond the normal business scope. Our professional experts will guide you through the complicated journey to get the work done smoothly.



SYSTEM DESIGN

Either a product or a system solution that our customer requires with their unique requirements or expectation, we will help to customize your design and accomplish your needs. The implementation of system design from user requirement to the UAT testing is all one inclusive service pack we do..

100%

We passion on what do to delivery the innovative green solutions and products to our customers. Our ultimate success is our customer's satisfactions and loyalties on our brand.

CONTACT US



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