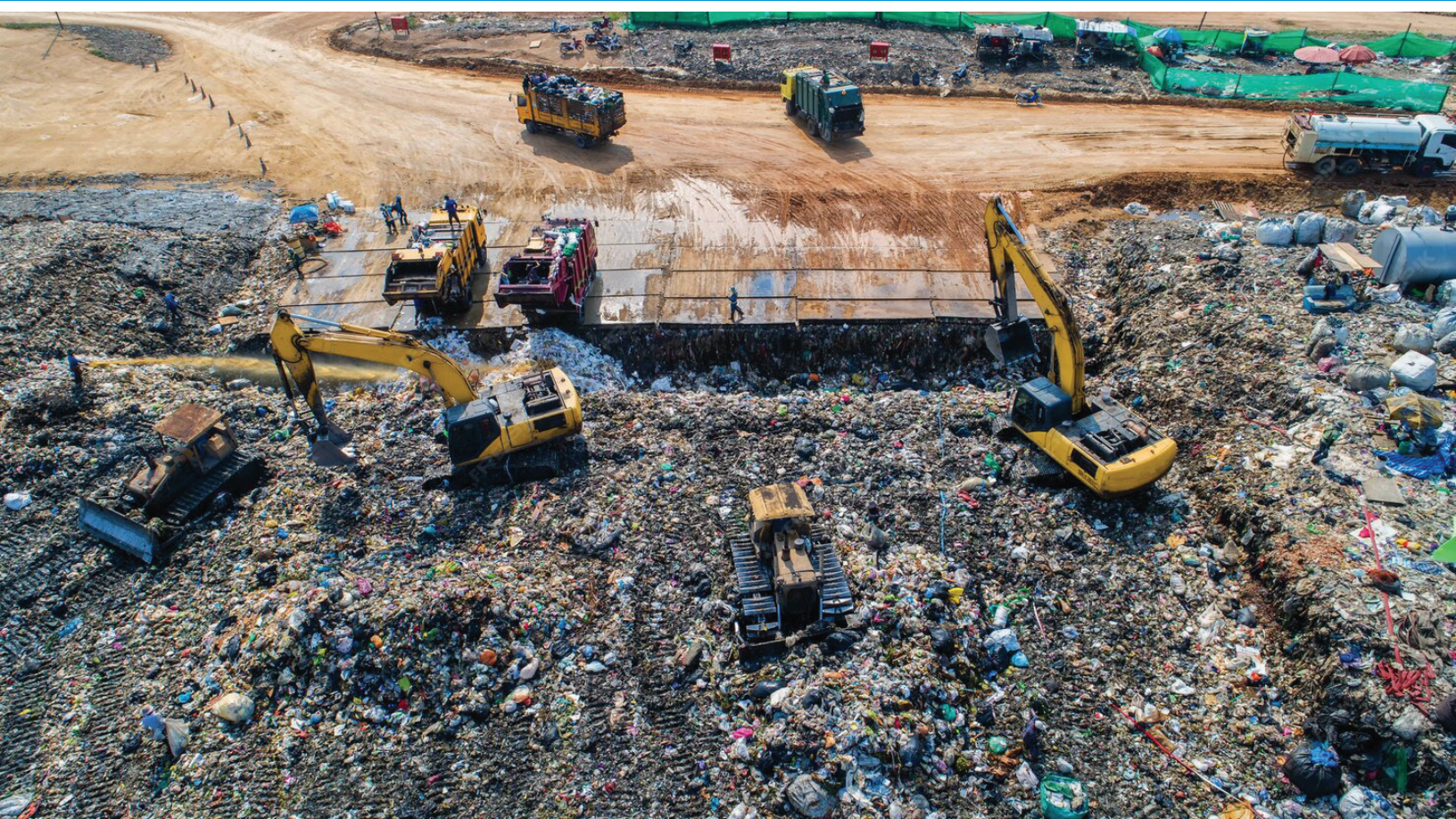




Hind Zero Waste Management Pvt Ltd



About us

Hind Zero Waste Management Pvt. Ltd. is a pioneer in designing and manufacturing advanced waste processing systems that redefine sustainability in the waste management sector. Backed by cutting-edge technology and a commitment to innovation, we deliver customized solutions for material recovery, recycling, RDF production, and integrated waste management.

With a strong foundation in engineering excellence and environmental responsibility, Hind Zero Waste stands at the forefront of India's circular economy movement—transforming waste into opportunity and vision into impact.

Vision

To be a global leader in sustainable waste management solutions driving innovation, efficiency, and circular economy transformation through advanced engineering and intelligent design. We envision a future where every waste stream becomes a valuable resource, enabling cleaner cities and a greener planet.

Mission

- To engineer world-class waste management machines and turnkey plants that set new benchmarks in quality, performance, and sustainability.
- To advance technologies in segregation, recycling, composting, RDF, and AFR processing through continuous innovation.
- To collaborate with municipalities, industries, and institutions in delivering integrated, scalable waste management solutions.
- To provide comprehensive after-sales, operations, and technical support ensuring consistent excellence and customer trust.
- To contribute meaningfully to Swachh Bharat Mission and global sustainability initiatives by minimizing landfill impact and maximizing resource recovery.





Biomining Trommel Machine

Engineered for Legacy Waste & MSW Processing

The Biomining Trommel Machine by Hind Zero Waste Management Pvt. Ltd. is a robust and efficient solution designed for large-scale biomining of legacy waste and municipal solid waste (MSW) processing. The system is equipped with:

- Loading & Feeding Conveyor – Ensures uniform and controlled feeding of waste.
- Heavy-duty Trommel Drum – Available in customized screening sizes (5 mm to 150 mm) to segregate fines, soil, compostable fractions, recyclables, and RDF.
- Product Conveyors – Separate conveyors for screened fractions.
- Dedicated RDF Conveyor – For efficient recovery and transfer of high-calorific material.
- Heavy Control Panel with Automation – For smooth operation, safety monitoring, and easy maintenance.

Built with industrial-grade steel, high-efficiency drives, and dust-control features, the trommel ensures high throughput, reduced downtime, and long service life, making it ideal for municipal corporations, ULBs, and private contractors engaged in waste processing.

Variants (Capacities Offered)

100 TPD

Compact model for small municipalities & pilot projects

200 TPD

Mid-capacity for towns & medium-scale biomining projects

300 TPD

Suitable for large-scale biomining with faster turnaround

450 TPD

Heavy-duty plant for mega projects & large ULBs

Common Specifications

- Screen Sizes : 5 mm – 150 mm (customizable)
- Drive System : Gearbox & motor with VFD control
- Feeding System : Conveyor belt with adjustable speed control
- Output Conveyors : Separate for fines, RDF, and oversize
- Control System : Heavy-duty PLC/Panel with safety features
- Drum Design : Fully welded heavy-duty MS/SS with wear-resistant lining
- Control System : Heavy-duty PLC/Panel with safety features
- Mobility Options : Fixed or skid-mounted system; wheel-mounted on request
- Service Access : Maintenance-friendly design with side inspection doors

Technical Data Chart

HZWM-T100	Capacity (TPD)	Trommel Dia.	Trommel Length	Screening Size Range	Power Requirement	No. of Conveyors	Panel Type
HZWM-T100	100 TPD	1200 mm	4.5 m	5-100 mm	~18 HP	3 (RDF, Fine)	Standard Panel
HZWM-T200	200 TPD	1500 mm	6 m	5-120 mm	~22 HP	4 (Fines, RDF, 2 Product)	Heavy Duty Panel
HZWM-T300	300 TPD	2200 mm	7.2 m	5-150 mm	~40 HP	4-5 (Custom)	Heavy Duty Panel with VFD
HZWM-T450	450 TPD	2500 mm	10 m	5-150 mm	~55 HP	4+ (Custom as per site)	Advanced PLC Panel



Air Density Separator (ADS)

Advanced Separation for Legacy Waste, MRF, and MSW

The Air Density Separator (ADS) by Hind Zero Waste Management Pvt. Ltd. is an advanced separation system designed for municipal solid waste (MSW), legacy waste, and Material Recovery Facilities (MRFs). It works on the principle of air classification, separating waste fractions based on density and aerodynamic properties. By creating an adjustable air stream within the separation chamber, the ADS efficiently segregates:

- Light fractions (plastics, paper, foils, RDF)
- Heavy fractions (stones, glass, metals, inert)

This ensures improved resource recovery, reduced rejects, and higher quality RDF, making it a critical component in modern waste-processing plants.

Common Specifications

- Working Principle : Airflow-based separation of light & heavy fractions
- Separation Efficiency : 90-95% (depending on waste composition)
- Discharge : Dual outlet conveyors (Light fraction & Heavy fraction)
- Control Panel : Advanced PLC/VFD-based operation with safety features
- Mobility : Fixed or skid-mounted; portable versions available on request
- Air Flow Control : Adjustable fans with VFD system
- Feeding System : Belt conveyor or chute feeder
- Construction : Heavy-duty mild steel with wear-resistant liners
- Dust Control : Integrated cyclone/air filtration system (optional)

Variants (Capacities Offered)

- 1 TPH – 5 TPH**
Compact models for small-scale MRFs & pilot projects
- 5 TPH – 15 TPH**
Medium models for municipalities & regional waste centres
- 15 TPH – 30 TPH**
Large models for high-throughput biomining & MSW facilities
- 30 TPH – 50 TPH**
Heavy-duty ADS for mega processing plants and industrial-scale facilities

Technical Data Chart

HZWM-T100	Capacity (TPD)	Trommel Dia.	Trommel Length	Screening Size Range	Power Requirement	No. of Conveyors
HZWM-ADS1	1 TPH	3,000 – 5,000	10 HP	Light / Heavy	Standard Panel	Small MRFs, R&D Labs
HZWM-ADS5	5 TPH	10,000 – 15,000	15 HP	Light / Heavy	Heavy Duty Panel	Small Municipalities, Biomining
HZWM-ADS15	15 TPH	30,000 – 45,000	25 HP	Light / Heavy	PLC Panel	Mid-size MRFs, MSW Plants
HZWM-ADS30	30 TPH	60,000 – 80,000	35 HP	Light / Heavy	PLC Panel with VFD	Large Biomining Projects
HZWM-ADS50	50 TPH	1,00,000+	50 HP	Light / Heavy	Advanced PLC Panel	Mega MSW Plants & RDF Processing



Shredder Machines

Efficient Size Reduction for Waste Processing

The Shredder Machines by Hind Zero Waste Management Pvt. Ltd. are designed for efficient size reduction of waste fractions, making them ideal for integrated waste management plants, composting facilities, RDF preparation, and recycling units.

We offer specialized shredders:

- **Wet Waste Shredder** Designed for kitchen waste, food waste, vegetable/fruit market waste, garden waste, and organic fractions. It ensures uniform particle size for composting/biogas processes.
- **Dry Waste Shredder** Heavy-duty shredders suitable for plastics, packaging materials, paper, textiles, wood, RDF preparation, and bulky dry MSW fractions. These shredders are engineered with robust construction, energy efficiency, and low maintenance design, making them suitable for continuous 24×7 operations.

Common Specifications

- **Cutting Mechanism** : High-strength alloy steel blades / cutters
- **Output Size** : Adjustable (10 mm – 100 mm depending on requirement)
- **Drive System** : Heavy-duty motor with gearbox (direct / belt drive)
- **Construction** : Mild steel/SS fabrication with corrosion protection
- **Feeding System** : Manual / Conveyor-fed
- **Control System** : Panel with overload protection, emergency stop, optional PLC
- **Safety Features** : Interlocked doors, reverse rotation to clear jams, guarded drives
- **Mobility** : Stationary or skid-mounted; portable units available for small models

Variants (Capacities Offered)

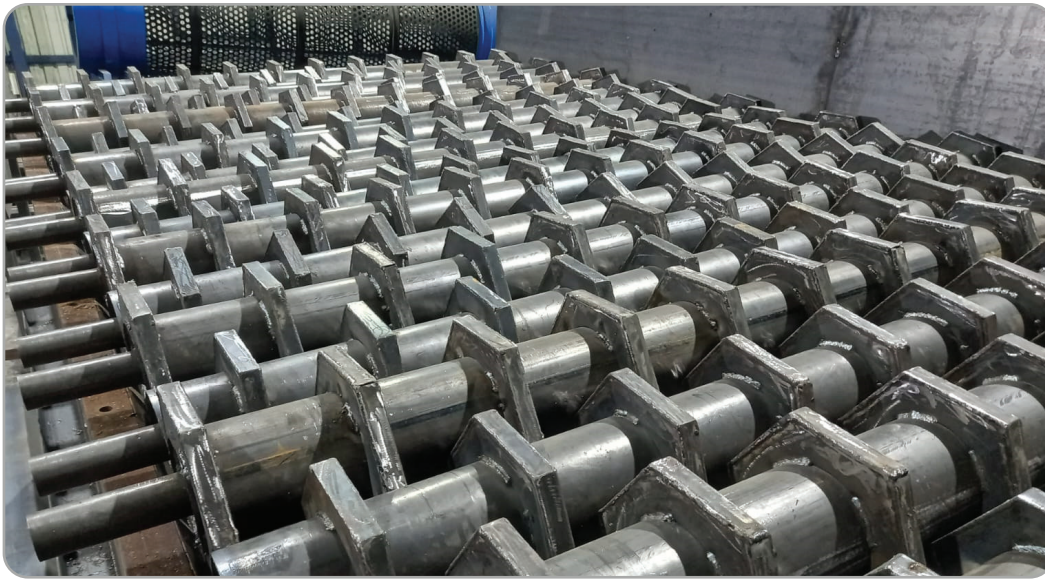
Wet Waste Shredder
100 kg/hr to 5 TPH

Dry Waste Shredder
1250 kg/hr to 20 TPH (single-shaft or double-shaft models available)

Technical Data Chart

HZWM-T100	Type	Capacity (TPH)	Input Material	Output Size	Motor Power (HP)	Feeding Mode
HZWM-WWS100	Wet Waste Shredder	100 kg/hr	Kitchen/Market Waste	10–20 mm	2 HP	Manual
HZWM-WWS500	Wet Waste Shredder	500 kg/hr	Food/Garden Waste	10–30 mm	5 HP	Manual / Hopper
HZWM-WWS2000	Wet Waste Shredder	2 TPH	Mixed Organic Waste	20–40 mm	20 HP	Conveyor
HZWM-WWS5000	Wet Waste Shredder	5 TPH	Bulk Organic Waste	20–50 mm	40 HP	Conveyor
HZWM-DWS250	Dry Waste Shredder	250 kg/hr	Plastic, Paper, Foils	20–50 mm	5 HP	Manual
HZWM-DWS1T	Dry Waste Shredder	1 TPH	Plastic, Packaging Waste	30–80 mm	15 HP	Conveyor
HZWM-DWS5T	Dry Waste Shredder	5 TPH	RDF, Textiles, Wood	40–80 mm	60 HP	Conveyor
HZWM-DWS10T	Dry Waste Shredder	10 TPH	Mixed Dry MSW, RDF	50–100 mm	150 HP	Conveyor + Hopper

(Note: Technical specifications can be customized based on waste type, throughput, and project requirement.)



Disc Separator

High-Efficiency Screening for MSW & Legacy Waste Processing

The Disc Separator is a vital component in Municipal Solid Waste (MSW) plants and Legacy Waste Biomining projects, designed to separate materials based on size, shape, and rolling characteristics.

It consists of a series of rotating shafts with specially designed discs that agitate and move waste forward. Oversized fractions such as stones, plastics, textiles, and bulky items are separated from fines and compostable material, ensuring efficient downstream processing.

This technology helps in:

- Removing oversized materials before shredding or further processing
- Improving RDF quality by segregating fines, recyclables, and heavy fractions
- Enhancing throughput of MRF, RDF, and Compost Plants

Common Specifications

- Working Principle : Rotating shafts with discs to separate oversize & undersize fractions
- Separation Size : Adjustable (typically 30 mm – 100 mm)
- Material of Construction : Heavy-duty MS/SS with wear-resistant discs
- Drive System : Electric motor with gearbox, controlled via VFD
- Feeding System : Conveyor or hopper-based feeding
- Discharge : Oversize & undersize conveyors
- Safety Features : Guarded drive parts, emergency stop controls
- Applications : Legacy waste biomining, MSW processing, RDF plants, compost plants

Variants (Capacities Offered)

5 TPH – 10 TPH

Compact units for small MRFs & legacy waste projects

10 TPH – 20 TPH

Medium-size plants for urban local bodies & contractors

20 TPH – 50 TPH

Large-scale MSW/legacy waste facilities

Above 50 TPH

Custom-engineered solutions for mega projects

Technical Data Chart

Model	Capacity (TPH)	Disc Size (mm)	Separation Range (mm)	No. of Shafts	Motor Power (HP)	Applications
HZWM-DS5	5 TPH	300 mm	30–70 mm	8–10	10 HP	Small MRFs, pilot legacy waste projects
HZWM-DS10	10 TPH	400 mm	30–80 mm	12–14	20 HP	Mid-size MSW plants
HZWM-DS20	20 TPH	500 mm	40–100 mm	16–20	40 HP	Large MSW/legacy waste processing
HZWM-DS50	50 TPH	600 mm	50–100 mm	25+	75 HP	Mega plants, RDF & compost pre-separation

(Note: Specifications are indicative and can be customized based on waste type and plant requirement.)



OWC & Vessel Composter

Sustainable Organic Waste Conversion for MSW & Industrial Use

The Organic Waste Composter (OWC) and Vessel Composter by Hind Zero Waste Management Pvt. Ltd. are engineered for rapid and scientific treatment of biodegradable waste from municipal solid waste, markets, institutions, hotels, canteens, and industries.

- **OWC Machine:** A fully mechanized system that shreds, mixes, and accelerates decomposition of organic waste with microbial culture, producing ready-to-cure compost in 24–48 hours.
- **Vessel Composter:** A closed, insulated container system that ensures odor-free, hygienic, and accelerated aerobic composting with controlled temperature and aeration. Ideal for decentralized waste treatment at housing societies, industries, and municipalities. These systems reduce landfill dependency, produce nutrient-rich compost, and ensure compliance with Solid Waste Management Rules 2016.

Common Specifications

- **Input Material :** Organic kitchen waste, market waste, garden waste, food industry waste
- **Output :** Stabilized compost (ready-to-cure or semi-cured form)
- **Process Time :** 24–48 hours (OWC), 7–10 days (Vessel)
- **Construction :** MS/SS body with anti-corrosive coating & insulation
- **Aeration System :** Blowers/vents for uniform oxygen supply
- **Control System :** Semi-automatic or fully automatic PLC-based panels
- **Additional Features :**
 - Inbuilt shredder (optional in OWC)
 - Odor control bio-filters
 - Leachate collection tray
 - Easy maintenance & operator-friendly design

Variants (Capacities Offered)

OWC Machines
50 kg/day 5 TPD

Vessel Composters
100 kg/day 20 TPD
(modular units for scalability)

Key Benefits

- Robust design for continuous 24×7 operation
- Modular construction easy installation & expansion
- Low maintenance with durable rollers & belts
- Energy-efficient drive systems with VFD control
- Ensures safe, efficient, and dust-controlled material handling

Technical Data Chart

Model	Type	Capacity	Processing Time	Motor Power (HP)	Construction	Applications
HZWM-OWC50	OWC	50 kg/day	7–10 days	3 HP	MS/SS	Small restaurants, offices
HZWM-OWC500	OWC	500 kg/day	7–10 days	10 HP	MS/SS	Hotels, institutions, markets
HZWM-OWC2000	OWC	2 TPD	7–10 days	25 HP	MS/SS	Industrial canteens, townships
HZWM-VC100	Vessel Composter	100 kg/day	7–10 days	3 HP (blower)	Insulated MS vessel	Societies, small industries
HZWM-VC1000	Vessel Composter	1 TPD	7–10 days	10 HP (blower + mixer)	Insulated MS vessel	Municipal decentralized units
HZWM-VC10000	Vessel Composter	10 TPD	7–10 days	25 HP	Insulated modular vessels	Large MSW plants
HZWM-VC20000	Vessel Composter	20 TPD	7–10 days	40 HP	Modular industrial-grade vessels	Mega MSW projects

(Note: Specifications are indicative and customizable based on waste type, land availability, and client requirements.)



Baling Machines

Compact, Reliable & Efficient Waste Compaction Solutions

The Baling Machines by Hind Zero Waste Management Pvt. Ltd. are designed to compress, bundle, and bale recyclable waste fractions such as plastic, paper, cardboard, PET bottles, aluminum cans, and RDF. These machines drastically reduce waste volume, making storage, handling, and transportation economical and efficient. We offer two types of balers to suit different project requirements:

- Horizontal Baler Machine High-capacity, fully/ semi-automatic, suitable for continuous operations in MRFs and large MSW facilities.
- Vertical Baler Machine Compact, manually operated/ semi-automatic, best suited for small to medium businesses, shops, and decentralized collection centers.

Common Specifications

- Bale Density : 300 – 800 kg/m³ (depending on waste type)
- Bale Weight : 50 kg – 800 kg
- Hydraulic System : Heavy-duty hydraulic cylinders & pumps
- Construction : Rigid MS/SS frame with wear-resistant guides
- Control System : Manual / PLC / Semi-Automatic / Automatic (as per model)
- Safety Features : Emergency stop, interlocking doors, overload protection
- Applications : MRFs, Recycling units, MSW projects, RDF recovery, Industrial scrap management

Variants (Capacities Offered)

Horizontal Balers
5 TPD – 100 TPD capacity
(with automatic tying options)

Vertical Balers
1 TPD – 10 TPD capacity
(manual or semi-automatic)

Technical Data Chart

HZWM-T100	Type	Capacity (TPH)	Bale Size (mm)	Bale Weight (kg)	Hydraulic Power (HP)	Operation
HZWM-VB1	Vertical	0.5 – 1 TPH	600 × 500 × 800	50 – 100	5 HP	Manual / Semi-Auto
HZWM-VB3	Vertical	2 – 3 TPH	900 × 600 × 1000	100 – 200	10 HP	Semi-Auto
HZWM-HB5	Horizontal	5 TPH	1000 × 700 × 1200	150 – 300	15 HP	Semi-Auto
HZWM-HB10	Horizontal	10 TPH	1100 × 750 × 1500	200 – 400	20 HP	Semi/Full Auto
HZWM-HB30	Horizontal	30 TPH	1200 × 800 × 1600	300 – 600	40 HP	Fully Automatic with Tying
HZWM-HB50	Horizontal	50 TPH	1500 × 1000 × 1800	400 – 800	60 HP	Fully Automatic with Tying

(Specifications are indicative. Bale sizes, weights, and capacity can be customized as per waste type & client requirements.)



Conveyors

Efficient Material Handling for MSW & Industrial Applications

The Conveyors by Hind Zero Waste Management Pvt. Ltd. are designed for continuous, efficient, and safe transportation of bulk materials in MSW plants, MRFs, RDF/AFR plants, recycling units, and industrial facilities.

Engineered with robust construction and advanced drive systems, our conveyors handle mixed solid waste, recyclables, organic waste, RDF fractions, and industrial raw materials. They form the backbone of integrated waste processing plants, ensuring smooth flow of material between equipment such as trommels, disc separators, shredders, balers, and storage units.

Common Specifications

- Conveyor Widths : 600 mm – 1600 mm
- Belt Material : Rubber / PVC / PU / Wire mesh (as per application)
- Drive System : Electric motor with gearbox, VFD controlled
- Structure : Heavy-duty MS/SS frame with impact idlers & support rollers
- Speed : Adjustable (0.2 – 1.5 m/s)
- Feeding : Hopper, chute, or direct infeed
- Applications:
 - Municipal Solid Waste plants (collection to processing line)
 - Recycling & MRF facilities (sorting belts, feeding lines)
 - RDF & AFR plants (fuel transfer conveyors)
 - Industrial applications (cement, steel, chemical plants)

Key Benefits

- Robust design for continuous 24x7 operation
- Modular construction easy installation & expansion
- Low maintenance with durable rollers & belts
- Energy-efficient drive systems with VFD control
- Ensures safe, efficient, and dust-controlled material handling

Technical Data Chart

Model	Conveyor Type	Capacity (TPH)	Width (mm)	Length (m)	Motor Power (HP)	Applications
HZWM-BC20	Belt Conveyor	20 TPH	600-800	5-10	5 HP	Small MSW/MRF units
HZWM-BC50	Belt Conveyor	50 TPH	800-1000	10-20	7.5 HP	Mid-size waste plants
HZWM-BC100	Belt Conveyor	100 TPH	1000-1200	20-40	10 HP	Large MSW & RDF lines
HZWM-IC30	Inclined Conveyor	30 TPH	1000	5-15 (inclined)	10 HP	Feeding trommels/shredders
HZWM-CC80	Chain Conveyor	80 TPH	1200-1400	15-30	30 HP	Heavy-duty bulky waste
HZWM-SC10	Screw Conveyor	10 TPH	400-600	5-10	5 HP	Sludge, fines, powders

(Note: Specifications are indicative and customizable based on waste type, land availability, and client requirements.)

Variants (Capacities Offered)

Belt Conveyors

General-purpose for MSW, RDF, recyclables, and compost

Chain Conveyors

Heavy-duty, suitable for bulky or abrasive waste

Screw Conveyors

For controlled movement of fine/sludge-like material

Inclined Conveyors

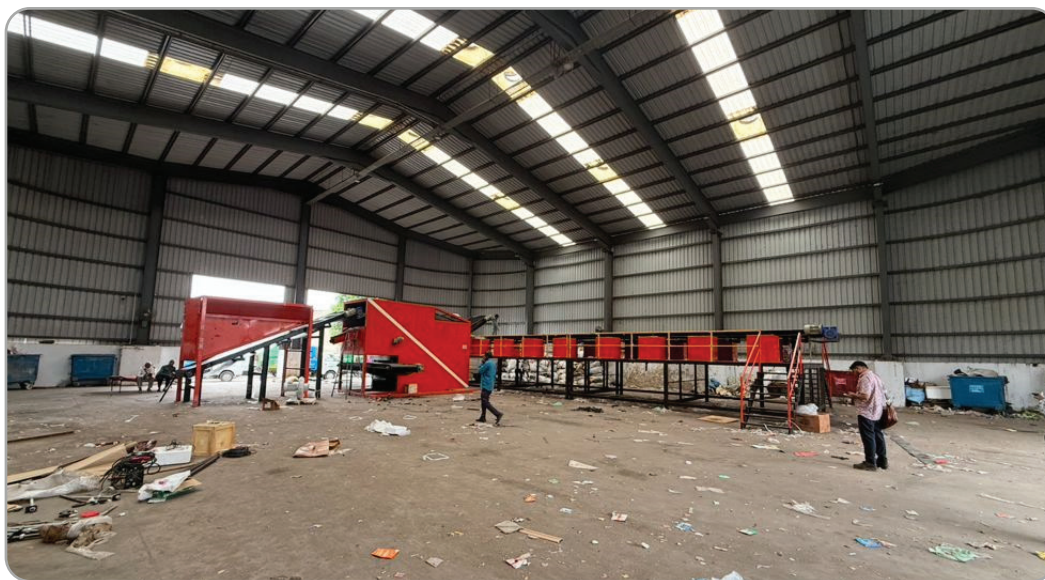
For feeding waste into trommels/shredders at height

Loading & Feeding Conveyors

Used at plant infeed and for controlled dosing

Customized Conveyors

Modular conveyors designed for site-specific layouts



Material Recovery Facility (MRF)

Engineered Solutions for MSW Segregation & Recycling

A Material Recovery Facility (MRF) is the backbone of any Municipal Solid Waste (MSW) processing system, designed to segregate, recover, and channelize valuable waste fractions for recycling and reuse. The MRF Plant by Hind Zero Waste Management Pvt. Ltd. integrates conveyors, trommel/ disc screens, magnetic separators, shredders, balers, and air density separators into a streamlined process that separates:

- Recyclables (plastics, paper, metals, glass)
- Organic waste/fines (for composting or biogas)
- Combustible fractions (for RDF/AFR)
- Rejects (minimal, sent to scientific landfill)

Our MRF systems ensure maximum resource recovery, reduced landfill dependency, and compliance with SWM Rules 2016.

Common Specifications

- **Process Flow** : Feeding Primary Screening Segregation Magnetic/ Eddy Current Separation Shredding/ Baling RDF & Recyclable recovery
- **Material Handling** : Belt conveyors with adjustable speeds
- **Separation Systems** : Trommels, Disc Separators, ADS, Magnetic/Eddy separators
- **Automation** : Manual / Semi-automatic / Fully automatic (with PLC control)
- **Construction** : Heavy-duty steel structure with walkways, platforms, safety enclosures
- **Applications** : Municipal Corporations, Smart Cities, Industrial Townships, Legacy Waste Recovery

Technical Data Chart

Model	Capacity (TPD)	Conveyor Width	Primary Screening	Segregation Line	Power Requirement	Automation Level
HZWM-MRF25	25 TPD	800 mm	Trommel (5–50 mm)	Manual Sorting Belt (4–6 persons)	~50 kW	Manual
HZWM-MRF100	100 TPD	1000 mm	Trommel/Disc Separator	Semi-Automated Sorting (8–10 persons)	~150 kW	Semi-Auto
HZWM-MRF300	300 TPD	1200 mm	Trommel + ADS + Magnet	Mixed Auto/Manual Segregation	~350 kW	Semi/Full Auto
HZWM-MRF600	600 TPD	1400 mm	Trommel+Disc+ADS+Magnet+ECS	Fully Automated Sorting Lines	~600 kW	PLC Controlled
HZWM-MRF1000	1000 TPD+	1600 mm	Multi-stage Screening	Fully Automated with Multiple Lines	1 MW+	Advanced PLC/SCADA

(Note: Specifications are indicative and customizable based on waste type, land availability, and client requirements.)

Variants (Capacities Offered)

25 TPD – 50 TPD

Small ULBs & decentralized waste processing units

100 TPD – 250 TPD

Medium-size city plants

300 TPD – 600 TPD

Large city/cluster-based MRFs

1000+ TPD

Custom mega facilities with modular design

Key Benefits

- Recovers 70–90% of recyclables & RDF fractions
- Reduces landfill dependency by up to 80%
- Scalable & modular expandable as per city's waste generation
- Ensures compliance with CPCB/MoEF waste processing norms
- Increases revenue from sale of recyclables & RDF



AFR (Alternative Fuels & Raw Materials) Plant

10 TPH & 20 TPH Integrated Solutions

The AFR Plant by Hind Zero Waste Management Pvt. Ltd. is engineered to process Municipal Solid Waste (MSW), Industrial Waste, and Legacy Waste into high-quality Alternative Fuel (RDF/AFR) suitable for cement kilns, steel industries, and power plants. Our plant integrates advanced material handling, separation, and shredding technologies to achieve:

- Efficient segregation of inert, recyclables, and combustible fractions.
- Uniform particle size reduction for consistent kiln feeding.
- High calorific value fuel with controlled moisture and dust levels.

Key Benefits

- Reduces landfill dependency by 70–80%
- Produces kiln-ready RDF with high calorific value
- Recovers recyclables & reduces rejects
- Continuous & reliable operation with robust design
- Supports Swachh Bharat Mission & Circular Economy Goals

Capacity Variants

10 TPH AFR Plant

- Input: Mixed MSW/Legacy/Dry Waste
- Output: ~7–8 TPH RDF (after segregation & rejects)
- Applications: Medium-scale cement plants, regional RDF processing hubs

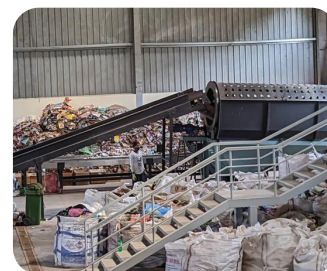
20 TPH AFR Plant

- Input: Large-scale waste streams from MSW plants or industrial clusters
- Output: ~15–16 TPH RDF (after segregation & rejects)
- Applications: Large cement plants, multi-city RDF supply facilities

Technical Data Chart

Equipment	10 TPH Plant	20 TPH Plant	Remarks
Loading & Feeding Conveyor	1200 mm wide, 15 HP motor	1600 mm wide, 20 HP motor	Adjustable speed, heavy-duty belt
Disc Separator	30 TPH	50 TPH, 10 kW drive	Removes oversize & inert
ADS (Air Density Separator)	30,000–40,000 m ³ /hr airflow, 40 HP fan	70,000–90,000 m ³ /hr airflow, 50 HP fan	Light vs Heavy separation
Primary Shredder	10 TPH, single-shaft, 150 HP motor	20 TPH, single-shaft, 200 HP motor	80-150 mm output
Secondary Shredder	10 TPH, twin-shaft, 150 HP motor	20 TPH, twin-shaft, 200 HP motor	50–70 mm output
Control Panel	PLC with VFD, 415V	PLC with VFD, 415V	Automation & safety features

Note: Specifications are indicative and can be customized based on waste composition, land availability, and client requirements.



Municipal Solid Waste (MSW) Processing Plant

Integrated Solutions for Sustainable Waste Management – 10 TPD to 300 TPD

The MSW Processing Plant by Hind Zero Waste Management Pvt. Ltd. is designed to scientifically process municipal solid waste into compost, recyclables, RDF (Refuse-Derived Fuel), and minimal rejects. Our plants integrate trommel/ disc screening, shredding, air density separation (ADS), magnetic separation, baling, and composting systems into a streamlined process, ensuring :

- Maximum segregation and resource recovery
- Reduction in landfill dependency by up to 80%
- Compliance with SWM Rules 2016 and CPCB norms
- Scalable design to suit small towns to large cities

The modular design allows expansion as waste generation increases, ensuring a future-ready investment.

Variants (Capacities Offered)

10–25 TPD

Small plants for villages & town panchayats

50–100 TPD

Medium plants for small municipalities

150–200 TPD

Large-scale urban plants

250–300 TPD

Cluster-based MSW plants for cities and industrial townships

Common Specifications

- Input : Mixed MSW (segregated/partially segregated)
- Output Fractions:
 - Compostable fractions (fines for composting)
 - RDF fractions (plastic, paper, textiles, foils)
 - Recyclables (metals, glass, PET bottles, etc.)
 - Rejects (inert waste to landfill)
- Core Equipment:
 - Feeding conveyors & hoppers
 - Trommel/Disc Separators
 - Air Density Separators (ADS)
 - Magnetic Separators
 - Primary & Secondary Shredders
 - Balers for recyclables/RDF
 - Composting Units (OWC / Vessel Composters)
- Automation: Manual / Semi-automatic / Fully automated PLC-based plants
- Construction: Modular, heavy-duty, designed for 24×7 operation
- Applications: Municipal corporations, smart cities, legacy waste remediation, industrial waste processing

Key Benefits

- Resource recovery up to 90% (recyclables + RDF + compostables)
- Minimizes rejects to landfill (<20%)
- Scalable modular design – expandable from 10 TPD to 1000+ TPD
- Generates RDF for AFR applications in cement plants
- Produces organic compost for agriculture & landscaping
- Supports Swachh Bharat Mission & circular economy initiatives

Technical Data Chart

Model	Capacity (TPD)	Screening System	Shredder Capacity	ADS Capacity	Power Requirement	Manpower Requirement
HZWM-MSW10	10 TPD	Trommel (5–50 mm)	0.5–1 TPH	–	~30 kW	5–8 persons
HZWM-MSW25	25 TPD	Trommel/Disc Separator	2 TPH	3 TPH	~60 kW	10–12 persons
HZWM-MSW50	50 TPD	Trommel + ADS	5 TPH	5–10 TPH	~120 kW	15–20 persons
HZWM-MSW100	100 TPD	Trommel + Disc + ADS	10 TPH	15 TPH	~250 kW	25–30 persons
HZWM-MSW200	200 TPD	Multi-stage Screening + ADS	20 TPH	30 TPH	~400 kW	40–50 persons
HZWM-MSW300	300 TPD	Trommel + Disc + ADS + Magnet	30 TPH	50 TPH	~600 kW	60–70 persons

Note: Specifications are indicative and can be customized based on waste composition, land availability, and client requirements.



Industrial Sheds

Durable Structures for Waste Processing & Industrial Operations

The Industrial Sheds by Hind Zero Waste Management Pvt. Ltd. are engineered for municipal solid waste processing plants, recycling units, RDF/AFR plants, warehouses, and general industrial use. Our sheds are designed with heavy-duty steel structures, weatherproof roofing, proper ventilation, and flooring solutions, ensuring safe, long-lasting, and low-maintenance infrastructure for continuous operations. We specialize in custom-designed industrial sheds that meet the requirements of waste processing machinery housing, storage, workshops, and large-scale industrial plants.

Common Specifications

- **Structure** : Pre-engineered steel building (PEB) with heavy-duty columns & trusses
- **Roofing** : Galvanized iron sheets / PUF insulated panels / Polycarbonate skylights
- **Flooring** : RCC or customized as per load requirement
- **Ventilation** : Ridge ventilators, turbo vents, side louvers
- **Height** : 6 m – 15 m clear span (customized)
- **Span** : 20 m – 50 m (column-free options available)
- **Durability** : Corrosion-resistant coating & fire-safe design
- **Applications** : Waste processing plants, storage godowns, manufacturing units, workshops, warehouses

Key Benefits

- Quick installation with pre-engineered modular design
- Weather & corrosion resistant – suitable for all climates
- Durable structures for 20+ years of operation
- Customizable spans and layouts for different industries
- Optimized for waste processing plants, warehouses & manufacturing setups

Variants (Capacities Offered)

Standard Prefabricated Sheds
Quick assembly, cost-effective

Heavy-Duty Sheds
Designed for waste processing machinery
(MRF, RDF, Shredding plants)

Warehousing Sheds
Large clear spans for storage & logistics

Customized Modular Sheds
Tailor-made as per
industrial/site requirement

Technical Data Chart

Model	Span (m)	Length (m)	Height (m)	Roofing Type	Flooring	Applications
HZWM-S20	20 m	30–50 m	6–8 m	GI Sheets	RCC	Small-scale sheds for workshops
HZWM-S30	30 m	50–80 m	8–10 m	GI / PUF Panels	RCC	MRF plants, storage sheds
HZWM-S40	40 m	80–100 m	10–12 m	PUF Panels + Skylights	RCC/Industrial Flooring	Large RDF/AFR processing sheds
HZWM-S50	50 m+	100 m+	12–15 m	GI + Polycarbonate	RCC/Heavy Load Flooring	Mega waste plants, warehouses

Note: Shed design is fully customizable depending on land, plant layout, and load requirements.

OUR IMPACT

Waste Management Machines & Plant

At Hind Zero Waste Management Pvt. Ltd., we are proud to be one of India's leading manufacturers and solution providers in the field of solid waste management and processing technology. Over the years, we have successfully designed, manufactured, & commissioned a wide range of waste management systems and plants that have transformed waste handling efficiency across multiple states.

Client Trust & Global Reach

With 400+ satisfied clients across India and South Africa, Hind Zero Waste Management Pvt. Ltd. continues to expand its footprint through quality engineering, reliable performance, and sustainable innovation.

Biomining Projects

We have executed 87+ Biomining Projects across India, helping cities reclaim land and restore the environment by processing and safely disposing of legacy waste. Thousands of tons of legacy waste have been processed, and RDF has been supplied to cement industries for co-processing.

Machinery Manufacturing Excellence

We have successfully supplied and commissioned:

- 300+ Baler Machines
- Multiple Shredder Machines (Single & Twin Shaft)
- RDF Processing & AFR Feeding Systems
- MSW Processing Plants and MRF Plants
 - Conveyor Systems, Trommels, Disc

Screens, and Ballistic Separators

Each machine is engineered in-house, designed for efficiency, durability, and sustainability, ensuring smooth operation at waste-management and RDF plants nationwide.

Comprehensive Plant Solutions

From design and fabrication to installation and commissioning, we deliver turnkey waste-processing plants, including:

- Municipal Solid Waste (MSW) Plants
- Material Recovery Facilities (MRF)
- RDF Shredding & Segregation Plants
- Automatic Feeding & Conveying Systems

Our plants are operating successfully across Maharashtra, Karnataka, Goa, Gujarat, Rajasthan, Andhra Pradesh, Telangana, and Madhya Pradesh.

Driving Sustainable Impact

We are dedicated to supporting India's mission toward a Zero Waste Future, by:

- Promoting resource recovery and circular economy principles
- Reducing landfill dependency
- Supporting co-processing with cement industries
- Providing customized technology for municipal and industrial waste management

OUR IMPACT





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Reduce, Reuse, Recycle

Zero Waste is Possible

