



DUROMECH
control focused - technology driven



**CONSTRUCTION & DEMOLITION
WASTE RECYCLING PLANT**

**MUNICIPAL SOLID WASTE
RECYCLING PLANT**



DUROMECH is leading the industry in Municipal Solid Waste (MSW) Recycling and Construction Plants. With much of the industry heading towards Recycling material mixes, we have stayed ahead of the technological curve to provide the most advanced systems and equipment to get the job done.

Our experienced design team will work directly with you to customize your Recycling processing system to suit your particular needs.

Materials That Can Be Sorted :-

- ❑ Wet and dry waste
- ❑ Mixed plastics
- ❑ Large OCC
- ❑ Mixed paper
- ❑ Ferrous and non-ferrous materials
- ❑ Wood Waste
- ❑ Carpet, Tires, White Goods
- ❑ Single Stream Recyclables
- ❑ Other materials as needed

Features & Benefits

- ❑ We manufacture Scientifically designed Trommel Screen. It effectively segregate solid waste and compost based on properties of particle size and density.
- ❑ Quickly sorts mixed recyclables in a more accurate and efficient way than employees could.
- ❑ Heavy-duty and rugged, built to last
- ❑ Maximizes screen efficiency
- ❑ Low energy usage and operating costs
- ❑ Low maintenance and parts costs
- ❑ The system focuses on sorting out the most valuable materials rather than on recycling large amounts of materials in the shortest time possible.
- ❑ Adjustable screening plates capabilities
- ❑ Zero spillage at transitions



Screening Technology



Conveyor



Destoner



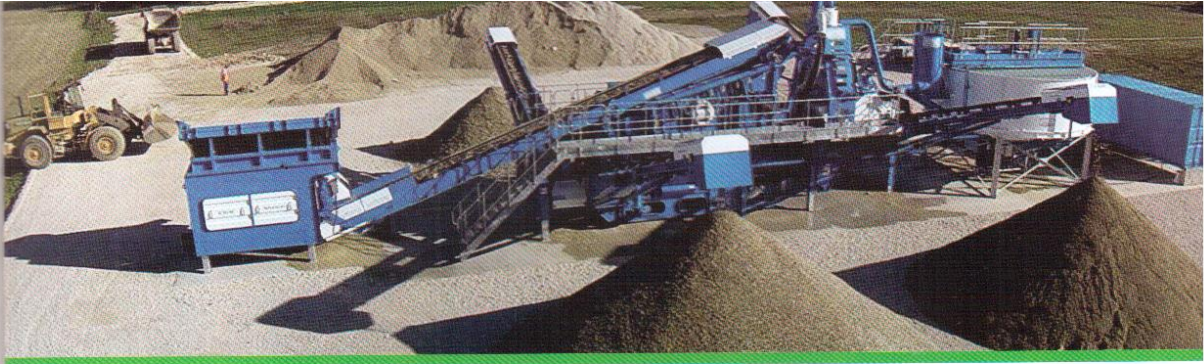
Shredder

Applications of Final Products:

- ❑ Plastic film can be made into plastic particles or converted into pyrolysis oil.
- ❑ Waste paper can be made into pulp to produce new paper.
- ❑ Metal can smelt new metal again;
- ❑ Glass can be reused.
- ❑ Making brick with the earth, stone and sand.
- ❑ Organic matter can be made into biogas by using fermentation system
- ❑ Refuse Derive Fuel (RDF) can be used to generate electricity



Compost



What Is Construction & Demolition Waste ?

Construction and demolition waste (C&D) is generated during the construction, renovation, and demolition of buildings or structures. These wastes include materials such as concrete, bricks, wood and lumber, roofing, drywall, landscape and other wastes

Features & Benefits

- ❑ Reduce usage of natural resources & enhances conservation
- ❑ Reduce sand mining from river beds
- ❑ Washing water recycled only 10-15% make up water
- ❑ Reduces burden on the urban land
- ❑ Reduces air pollution
- ❑ Able to recycle recover about 95% of incoming waste
- ❑ A replicable public private partnership model for the country



Process

- ❑ Feeding & pre-screening
- ❑ Aggregate scrubbing
- ❑ Contaminant removal
- ❑ Aggregate Sizing
- ❑ Sand washing
- ❑ Primary stage water treatment
- ❑ Sludge Management



Aggregates are sold for use in:

- ❑ Concrete Road construction
- ❑ Bituminous road construction
- ❑ Hydraulic bond road construction
- ❑ Ground Improvement
- ❑ Earthwork Embankments
- ❑ Earthwork Cutting
- ❑ Shallow foundation
- ❑ Concrete Structure
- ❑ Industrial Buildings
- ❑ Residential Buildings



Washed recycle 10mm

Washed recycle 20mm

Washed recycle 40mm

Washed recycled Sand

MINERAL PROCESSING

Vibrating Screen

Jaw Crusher

Cone Crusher

Impactor

Rotopactor

Screw Classifier

Dewatering Screen

Rotary Trommels

BULK MATERIAL HANDLING

Belt Conveyor

Bucket Elevator

Vibrating Grizzly Feeder

Vibro Feeder

Drag Chain Conveyor

Screw Conveyor

Apron Conveyor

EPC

Crushing & Screening Plant

Sand Washing Plant

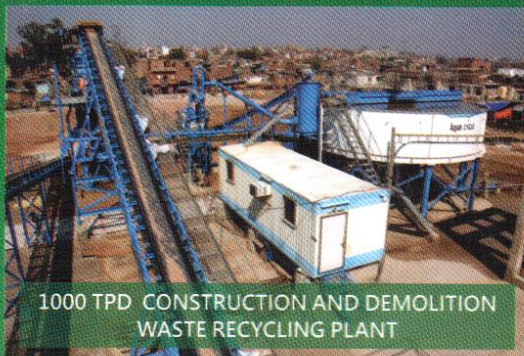
MSW Recycling Plant

C&D Waste Recycling Plant

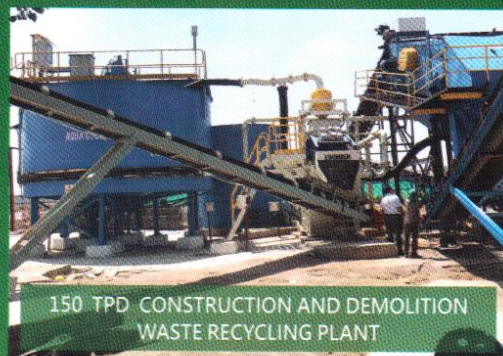
Coal Handling Plant

Mobile Crushing Plant

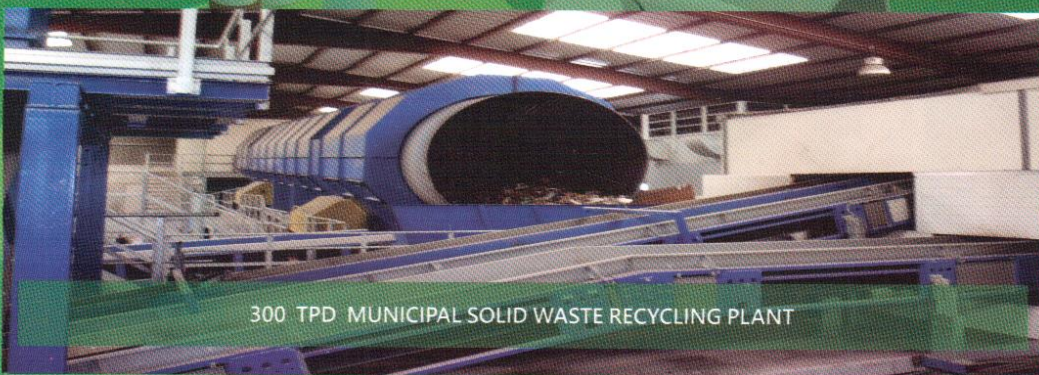
SOME OF OUR EXPERIENCES



1000 TPD CONSTRUCTION AND DEMOLITION
WASTE RECYCLING PLANT



150 TPD CONSTRUCTION AND DEMOLITION
WASTE RECYCLING PLANT



300 TPD MUNICIPAL SOLID WASTE RECYCLING PLANT

500 TPD CONSTRUCTION AND DEMOLITION WASTE RECYCLING PLANT

150 TPD CONSTRUCTION AND DEMOLITION WASTE RECYCLING PLANT

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