

2010

جمعية حماية البيئة من التلوث

Association for the Protection of the Environment



Final Product and Machinery Catalogue 2007

Plastic Recycling

Machinery
Department

Recycling of
Organic Composite

Paper Recycling

PET

Income Generating
Projects

Plastic Crusher Machine

Description:

This machine crushes large pieces of plastic waste into small particles ready for pelletizing.

Specifications:

- Driver Motor (1x40 HP – 380v)
- Rotary Cutter (4 pieces)
- Stationary Cutter (2 pieces)
- Electrical Control Panel (1)
- End Product Tank
- Dimensions (100x100x30cm)
- Production Capacity (300-350 g/hr)
- Dimensions LxWxH (120x80x170cm)
- Net Weight (1500kg)



Product Sample:



Film Making Machine

Description:

This machine uses the fine particles of plastic to manufacture garbage plastic bags.

Specifications:

- Driver Motor (1x30 HP – 380v)
- Take – Up/Winding Motor (1x4HP - 380v)
- (1x2Hp -380v) Inverter (variable speed drive)
- Cooling Blower (1x7.5HP – 380v)
- Gear Box (1)
- Film Thickness (0.02 – 0.08mm)
- Film Width (1 meter)
- Extruding Capacity (40Kg/hr)
- Dimensions LxWxH (400x200x350cm)
- Net Weight (1.3 Ton)



Product Sample:



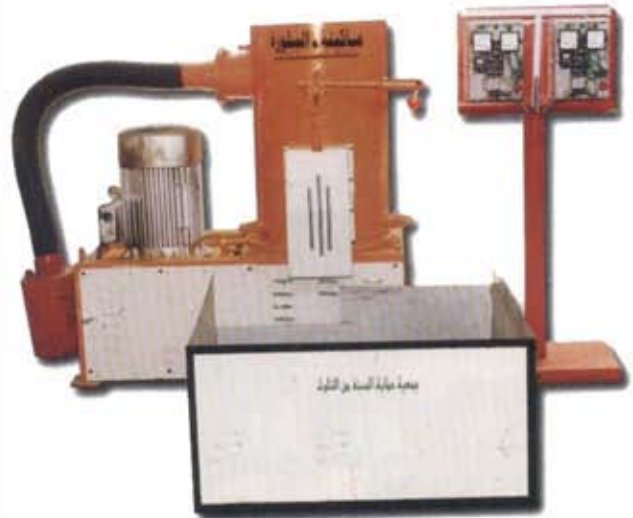
Agglomerating Plastic Machine

Description:

This machine agglomerates the used plastic bags to fine particles in order to be recycled for production of new plastic bags.

Specifications:

- Driver Motor (1x30HP – 380v)
- Rotary Cutter (2 pieces)
- Stationary Cutter (4 pieces)
- Electrical Control Panel (1)
- Product Tank Dimensions (100x100x30cm)
- Production Capacity (80 Kg/hr)
- Dimensions LxWxH (120x120x80cm)
- Net Weight (500Kg)



Product Sample:



Plastic Injection Machine

Description:

This machine transfers the plastic pellets after injection process to produce other plastic products according to the requirements of the user.

Specifications:

- Actual Shot Weight (120gm)
- Electrical Motor (1x7.5HP – 380v)
- Dimensions (80x155x267cm)
- Injecting System (Hydraulic 250Kg/square cm)
- Clamp Stroke – Max (300mm)
- Open Daylight – Max (400mm)
- Max mould width (340mm)
- Electrical Control Panel (1)



Product Sample:



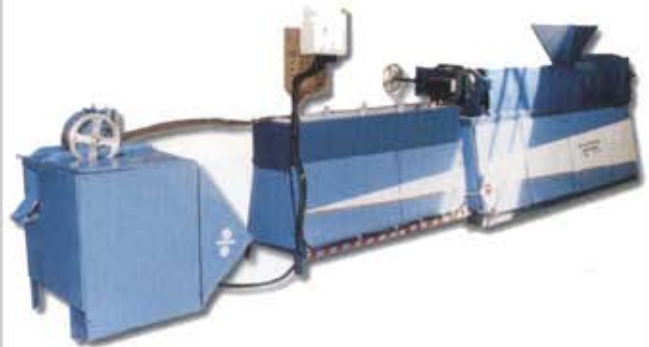
Plastic Pelletizing Reproduction

Description:

This machine uses finely crushed or agglomerated plastic wastes, removes impurities and dust particles through special filters and transforms them into pellets ready to be used for different plastic products.

Specifications:

- Driver Motor (1x30HP – 380v)
- Driver Motor for Cutter (1*5.5HP – 380v)
- Screw Diameter (88mm) L/D=20
- Electrical Control Panel (1)
- Cooling Water Tank (1)
- Tank for Pellets (1)
- Head Motor (1x3 HP – 380v)
- Extruding Capacity (40Kg/hr)
- Dimensions LxWxH (680x200x160cm)

**Product Sample:**

Reject of Plastic Reject

Description:

This unit uses the worst plastic wastes from organic composites that can not be used in any of the above recycling machines. The plastic wastes undergo a special treatment process and by adding certain percentages of sand products such as manholes, bricks and plates can be produced.

Product Sample:



Paper Recycling Machine Line

Carton Packs Mixer



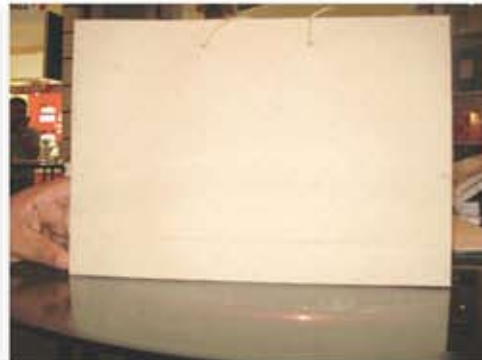
Differentiating Container



Paper Press

**Process Description:**

Throughout this process carton packs are mixed and the paper layer is extracted from its three main layers (Aluminum, Paper and Plastic). The extracted Paper is the pre-final product. And the Paper Press is used to reach the final product "Paper Bags".

Product Sample:

Plastic Crusher Machine

Description:

This machine crushes large pieces of plastic water bottles into small particles ready for pelletizing.

Specifications:

- Driver Motor (1x30 HP – 380v)
- Rotary Cutter (8 pieces)
- Stationary Cutter (2 pieces)
- Electrical Control Panel (1)
- End Product Tank
Dimensions (100x100x30cm)
- Production Capacity (120-140 g/hr)
- Dimensions LxWxH (120x80x170cm)
- Net Weight (1500kg)



Product Sample:



Rotating Filtering Drum



Product Sample:

- High quality, environmental and safe compost.
- The best compost in organic planting for desert soils, and planting of vegetables.
- APE compost is a product of fermentation of household garbage organic matter and the animal manure in addition to rice straw.
- APE compost is a value source for all essential elements that needed for planting.
- It is free from all harmful microbes.
- The production capacity is 1000 ton per month

Machinery Unit

The Machinery Unit manufactures all the previous machines in addition to the following.
Also the Machinery Unit provides services like maintenance and Training for all its products.

Manual Garbage Separation Conveyor**Description:**

This machine is used for manual garbage separation. It can be used in tourist villages and small communities.

Specifications:

- Material of the Conveyor belt (Heavy duty Rubber)
- Motor (5.5HP – 380/220v – 50 – cycle class F insulation to work over 40 degree, outside temperature)
- Axis Distance (12m)
- Conveyor Width (1m)
- Conveyor Speed (8m/min)
- Distance between Upper Rollers (1m)
- Distance between Lower Rollers (1m)
- Conveyor Height (1m)
- Electrical Control Panel (1)



Carton Boxes Hydraulic Press**Description:**

This machine is used to reduce the volume of dashed carton in transfer stations.

Specifications:

- Hydraulic Compressor Power(20 tones)
- Dimensions of compressed product (100x70 x 60 cm)
- Feeding door 100 x 70 cm²
- Motor (10Hp –380/220 v-50-cycle class F insulation to work over 40 degree, outside temperature)
- Opening & closing Compressor doors operated smoothly with Hydraulic system
- A complete control panel
- Complete hydraulic system with suitable hydraulic tank



Hydraulic Metal Compactor

Description:

This machine is used in reducing the volume of metal boxes and cans in transfer stations.

Specifications:

- Hydraulic Compressor Power(40 ton)
- Dimensions of compressed product (50x50x25cm)
- Motor (15 Hp –380/220 v-50-cycle class F insulation to work over 40 degree, outside temperature)
- Opening & closing Compressor doors operated smoothly with Hydraulic system.
- A complete control panel
- Complete hydraulic system with suitable hydraulic tank



Income Generating Project

Description:

Income Generating Project was established to improve the income of low income people living near rubbish disposal areas. The project aims at developing their productive abilities by teaching them some primary skills. In addition, the APE tries to provide necessary machines and equipment for them to produce and then sell their production and give them money in return.

Product Sample:

