

TYPICAL DESIGNS



PE Washing Systems

These PE processing systems are designed for the recycling of materials such as post consumer HDPE bottles (with labels), drums and containers, LDPE & LLDPE films from product packaging and agricultural sources etc.

The resulting flakes/granules produced are of high purity and low moisture content suitable either for sale or further processing.

Due to the varying input materials, contamination levels and system requirements in different regions we can offer a range of standard systems that can be tailored to suit your individual requirements.

PP Woven Bag Recycling Line

Genox's woven bag washing plants are high throughput, high performance recycling systems designed especially for this application.

Through extensive research of the PP woven material characteristics, we are able to provide detailed, effective system proposals which minimise the quantities of fines created, therefore keeping material loss to minimum.

In addition to the above, a proven, effective drying solution for PP woven material has been developed .



PET Bottle Washing Systems

Our PET bottle recycling plants are designed for the recovery of post consumer PET bottles including labels and caps typically from fizzy drink or water bottles.

These systems produce extremely clean, uniform sized PET flakes with low moisture levels.

Input material specifications and contamination levels vary by region and application, we therefore offer a standard range of systems that can be configured to suit the customers needs.

PLASTIC WASHING

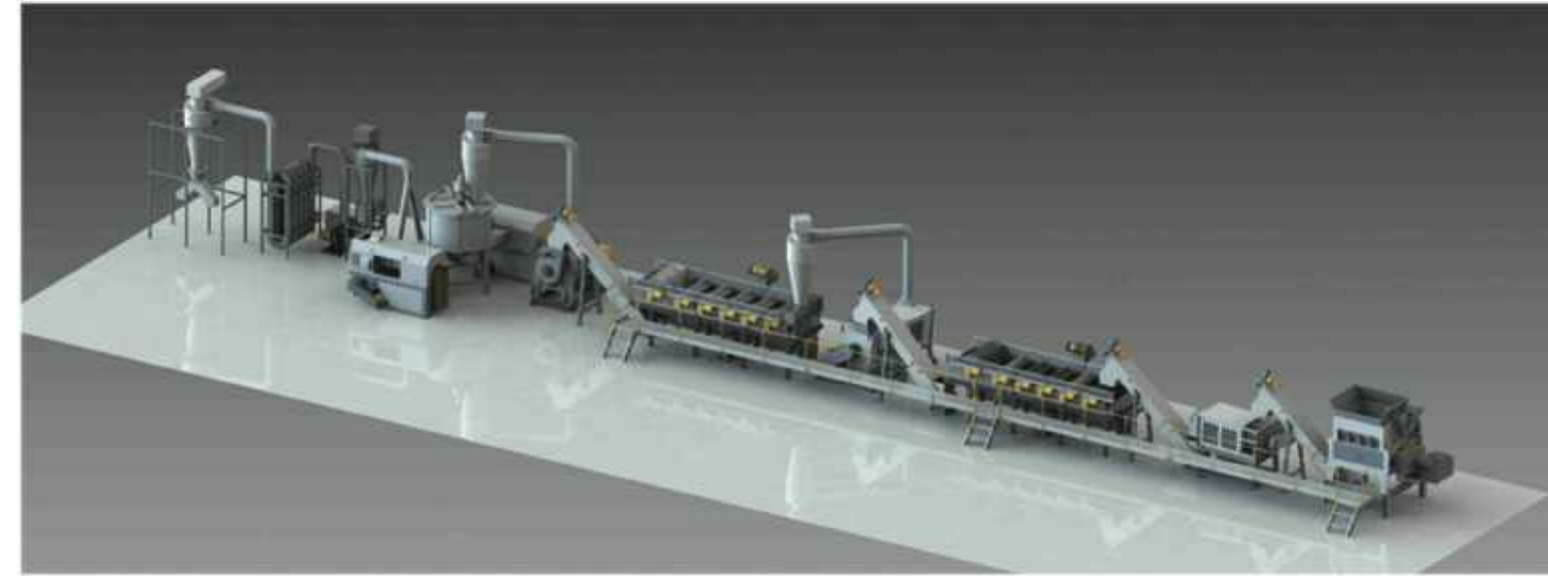


PLASTIC WASHING SYSTEMS

Our Universal Plastic Washing Plants are high performance recycling systems for the recovery of rigid or flexible plastics from derived from various sources, including materials with high contamination levels.

We are able to provide effective, customised proposals and cost-effective solutions by listening to and understanding our customers' needs. These modular systems are capable of processing general plastics including:

- HDPE Bottles
- PE Films (*post consumer or agricultural*)
- PP Woven Bags
- PET Bottles



Depending on the application these plants may include:

- Bale Breaker - opens the bales of input material to allow it to flow and be sorted.
- Infeed Conveyor Belt - presents an even material feed to the plant.
- Pre-Shredder- wet or dry shredding for size reduction and washing.
- Pre-Washer - removal of some sands and other dirt.
- Screw Washer - washing and material transportation.
- Hot Washing Tank - hot washing with alkaline (caustic) soda to remove glues and oils.
- Sink-Float Separation Tanks - removal of some contamination and helps wash the material.
- Granulator - wet granulation for size reduction and washing.
- Horizontal Friction Washer- high speed washing or scrubbing of material.

- Centrifugal Dryer - mechanical dewatering of the product.
- Screw Press - mechanical dewatering of the washed product through compression.
- Thermal Drying System - hot air drying of the product
- Zig-Zag Classifier - removal of labels and fines.
- Bag Station - delivers the product into storage bags
- Electrical Panel - provides an interface for the operator to control all aspects of the system.

The correct combination, sizing and configuration of the equipment listed provides a reliable, efficient plastic recycling systems, producing high quality materials ideal for sale, or for use in converting equipment (pelletizing, injection/blow moulding and extrusion).



Pre-Washer

Model	Dimension (mm)	Speed (rpm)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GRD6030	3100x1950x2000	1,080	630	55	2,600
GRD8030	3150x2150x2200	1,080	830	75/90	3,300



Float-Sink Washing Tank

Model	Dimension (mm)	Tank Width (mm)	Number of Roller (pcs)	Motor Power (kW)	Weight (kgs)
GSF1240	4450x2850x2250	1,200	4	5.5	2,600
GSF1560	5800x3100x2450	1,500	6	11	3,400
GSF1860	5800x3200x2450	1,800	6	15	3,700



Horizontal Friction Washer

Model	Dimension (mm)	Type	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GFW6030	3600x1650x1800	Horizontal	600	55	3,400
GFW8030	3600x2000x2150	Horizontal	800	75	4,200



Centrifugal Dryer

Model	Dimension (mm)	Screen Length (mm)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kg)
GSW650	3500x1240x1750	1,400	650	55	3,200
GSW800	3660x1540x2120	1,400	800	90	3,900
GSW800L	4260x1540x2120	2,000	800	110	4,500



Film Press

Model	Dimension (mm)	Speed (rpm)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GXJ300	3300x1360x2050	49	300	45	4,600
GXJ400	3340x1460x2050	49	400	55	5,100



Hot Washing Tank

Model	Dimension (mm)	Volume (m³)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GTC120	4100x5100x2700	2.5	1,200	55	3,100
GTC250	5400x5100x4000	10	2,500	80	4,000



Trommel Screen

Model	Dimension (mm)	Speed (rpm)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GTD1240	1700x3600x5000	10	1,200	5.5	2,500
GTD1540	2000x3600x5000	8	1,500	7.5	3,100



Inclined Friction Washer

Model	Dimension (mm)	Speed (rpm)	Rotation Diameter (mm)	Motor Power (kW)	Weight (kgs)
GFW4030	3600x3100x1000	1,000	400	15	1,200
GFW5030	2700x1100x3700	1,000	500	18.5	1,400