

# Recycling



## PLASTIC WASHING SYSTEM

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Our Universal Plastic Washing Plants are high performance recycling systems for rigid or flexible plastics from various sources, including materials with high contamination levels. We provide effective, customized proposals and cost-effective solutions by listening to and understanding our customers' needs. These modular systems are capable of processing general plastics such as:

- HDPE bottles
- PE film (post-consumer or agricultural)
- PP woven bags
- PET bottles



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- Bale Breaker – opens the bales of bottles to allow them to flow and be sorted
- Infeed Belt Conveyor – presents an even feed of material to the plant
- Pre-shredder – wet shredding for size reduction and washing
- Screw Washer – washing and material transportation
- Pre-washer – removal of some sands and other dirt
- Hot Washing Tank – hot washing with alkaline (caustic) soda to remove glue and oil
- Sink-Float Separation Tank 1 – removal of some contamination and helps wash the material
- Granulator – wet granulation for size reduction and washing
- Horizontal Friction Washer 1 – high speed washing/scrubbing of material
- Sink-Float Separation Tank 2 – removal of some contamination and helps wash the material
- Horizontal Friction Washer 2 – high speed washing
- Centrifugal Dryer – mechanical dewatering of the product
- Screw Press with advanced feeding system – mechanical de-watering through squeezing action
- Thermal Drying System – hot air drying of the product
- Zig-Zag Classifier – removes some of the labels and fines
- Big-Bag Station
- Control panel

The correct combination and sizing of the above listed equipment will provide a reliable, efficient plastic recycling system producing a high quality product ideal for sale, or for use in pelletizing, injection or blow moulding equipment.



### Pre-Washer

Model	Dimension (mm)	Speed (RPM)	Rotation Diameter (mm)	Motor Power (kw)	Weight (kg)
GRD8030	3100x1950x2000	1080	830	55	2800
GRD8030	3150x2150x2200	1080	830	75/90	3300



### Sink-Floating Tank

Model	Dimension (mm)	Operation width (mm)	Number of Roller (PCS)	Motor Power (kw)	Weight (kg)
GSF1240	4450x2850x2250	1200	4	5.5	2800
GSF1560	5800x3100x2450	1500	6	11	3400
GSF1860	5800x3200x2450	1800	6	15	3700



### Friction Washer/Turbo Wash

Model	Dimension (mm)	Type	Rotation Diameter (mm)	Motor Power (kw)	Weight (kg)
GFW5030	3250x1120x3500	Incline	500	18.5	1450
GFW6030	3600x1650x1800	Horizontal	600	55	3400
GFW8030	3600x2000x2150	Horizontal	800	75	4200



### Centrifugal Dryer

Model	Dimension (mm)	Screen length (mm)	Rotation Diameter (mm)	Motor Power (kw)	Weight (kg)
GSW650	3500x1240x1750	1400	650	55	3200
GSW800	3680x1540x2120	1400	800	90	3900
GSW800L	4260x1540x2120	2000	800	110	4500



**GENOX**  
shredding recycling

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