

Types of PET Bottle Flakes Washing Line 1480

Detail Introduction :

When you need a complete bottle recycling system, the best way to go is with a PET Bottle Flakes Washing Line 1480. These machines can handle all kinds of bottle waste, including PET bottles, and will help you achieve a higher level of profitability and quality. Here are some of the most popular types of PET Bottle Flakes Washing Line 1480. These machines include High-speed dewatering, Trommel separators, Debaler machines, and more.

High-speed dewatering machine



High-speed dewatering machines are used in the first drying step of a PET bottle washing line. They remove large amounts of water from PET bottle flakes by centrifugal force. In other words, they make the flakes more brittle and pliable. Then, the pellets can be dried using a vacuum cleaner. The dewatering machine removes the remaining impurities to below 300ppm.

The machine has a high-speed dewatering system and a low-speed one. A high-speed dewatering machine for PET bottle flakes can be used for a wide range of processes. For example, the machine can separate PET bottle flakes from other waste materials, such as shredded paper, coffee grounds, and plastic bags. It can also be used to clean dirty PET flakes from labels.

A high-speed dewatering machine is an excellent choice for preparing PET bottles for pelletization. It can reduce the moisture content in the flakes to 2% or less. It also has an automatic screen for controlling the size of flakes. It is also easy to use and has a high production capacity. This machine has an impressive record of efficiency, and can be found at a number of recycling facilities in the world.

Trommel separator

The trommel is a large cylindrical screen tunnel with holes that are smaller than the size of PET bottles. Rigid materials that are smaller than the holes fall through while PET bottles remain inside the trommel. The trommel is set at a slight tilt and has flaps to move the PET bottles forward. ASG offers a standard trommel that is 1500mm in diameter and 4500mm long. It is also possible to order custom-made trommels.

The trommel separator can separate waste plastic, glass, and PET bottle flakes into different sizes and granulations. It can also remove small pieces of wood, paper, cardboard, and other residuals from the plastic bottles. This machine also granulates the PET flakes to create a product that is suitable for recycling. It can be set up with an optional conveyor.

Debaler machine

A machine breaks bales of PET bottles into a free-flowing stream. From there, the bottles can be moved to the next piece of equipment. The process can also include a trommel machine. The trommel machine has holes that are slightly smaller than PET bottles, so small pieces of contamination can fall through. Once the bottles are free from contaminants, they will move to the next machine.

The first machine is the granulator. This machine has special force-feed devices that allow bottles to be poured into the crushing chamber. These bottles are then crushed into 12mm flakes. The granulator is followed by the sink-float tank, which picks up the floated materials. The sink-float tank is needed when the water is hot enough to melt the glue.

High-speed depolymerization machine

A high-speed depolymerization machine is a type of industrial recycling equipment for plastic bottles. These machines break down PET bottles to create flakes with a thickness of 2-30 mm. In the process, the crushed bottles are free of aluminum and iron. The polymer components are separated into different fractions, allowing them to be recycled in the following processes. This machine is especially useful for processing PET bottles that contain color pigments.

The depolymerization machine works by cleaning recovered PET flakes to a level that meets recognized food safety standards. The process is designed to provide a narrow range of IVs, with batch-related fluctuations eliminated. The high-speed depolymerization process initiates from favorable conditions inside the depolymerization tank, resulting in an IV increase rate of 0.01 dl/g per minute. The faster the reaction, the more profitable the operation will be.

The depolymerization process consists of drying and crystallization processes. After the process, the resulting rPET flakes have amorphous re-granulate and are ready for further processing. Once the process is completed, rPET bottles can be blown and used for products such as bottles. There are many advantages of the High-Speed Depolymerization Machine for PET Bottle Flakes

Label separator

A label separator is an important part of a PET bottle flake washing line. This machine separates PET flakes from plastic film labels by using air pressure. It works by sucking in a small proportion of the label while the rest is sucked by a wind. This separation process prevents bottle flakes from coming into contact with plastic film labels, preventing their contamination. Here are some features of this machine.

The wet plastic granulator, also known as the plastic crusher, is a machine that cuts PET bottles into flakes between 10 and 15 mm. During the process, water is sprayed into the cutting chamber, which partially cleans and pre-treats the bottles. Then, the PET bottles move to the next machine. This step will remove any leftover food and beverage materials that are embedded in the PET flakes.

Recyclable polyester end groups

Recently installed a wash line for recycling PET Bottle Flakes. Compared to post-consumer bottles, industrial waste is more effective at recycling polyester. In fact, pre-consumer polyester scraps, such as leftover rolls of fabric, are a great source of recycled polyester. This product line is capable of processing 100 percent flakes. It is highly recommended for recycling PET bottles, and can be used to manufacture a variety of materials.

Virgin polyester fiber has traditionally been cheaper than recycled. However, the cost of virgin PET plastic has been rising along with global oil and petroleum prices. Fiber mills can access recycled

materials more readily, but the availability of recycled material depends on the steady stream of consumer-recycled bottles. The price of recycled PSF can be highly volatile and may not be as inexpensive as virgin PET fiber. As a result, a steady stream of consumer-recycled bottles is required to ensure a steady supply.