

Waste sorting plant in ESS GROUP, which is also called garbage sorting machine, provides higher efficient sorting process to sort out the mixed waste with the higher collection rate. Through the advanced sorting process, the mixed municipal solid waste can be classified into several types of materials, including plastic and paper, organic waste, brick and stones, metal, and other combustible waste.

Adopting the infrared sorting system, the ESS automatic waste sorting equipment can guarantee the superior quality of the sorted materials. Because of the advanced conveying technology with conveyor belts of all types, ESS can promise our highly efficient sorting machine is perfect and reliable logistics for the various materials. The sorting rate of ESS garbage sorter can be more than 85%, which lay the foundation for the following recycling, pyrolysis or other processes.

Our robust trommels are slow rotating separation machines used to remove smaller sized contaminants from a recycling stream. Although slow moving, its been proven to be highly effective in numerous applications and is often used in the plastic recycling plants as well as larger Material Recovery Facilities (MRF) that handle municipal waste.

## Working Principal

At the core of a trommel is a large cylindrical mesh screen tunnel that rotates between 6 – 10 rotations per minute. Flaps are mounted on this interior tunnel to continuously flip the feed stock as well as guiding it in a forward motion. As the feed stock slowly moves through this large piece of separation equipment which tilted at an angle, small pieces of unwanted contamination such as broken glass falls through the mesh screen and is collected. Pieces that are larger than the mesh screen holes moves forward to the next piece of recycling machinery.

We offer a standard trommel that is 2000mm in diameter and 1200mm long with automatic brush units to keep the mesh filters clean. Our trommels use a two-wheel or four-wheel drive design and come with frequency and synchronization controls. Depending on your requirements, we can also provide trommels made to your specifications.