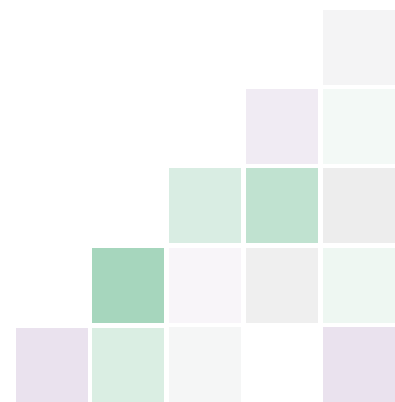




THE ELEMENTS OF

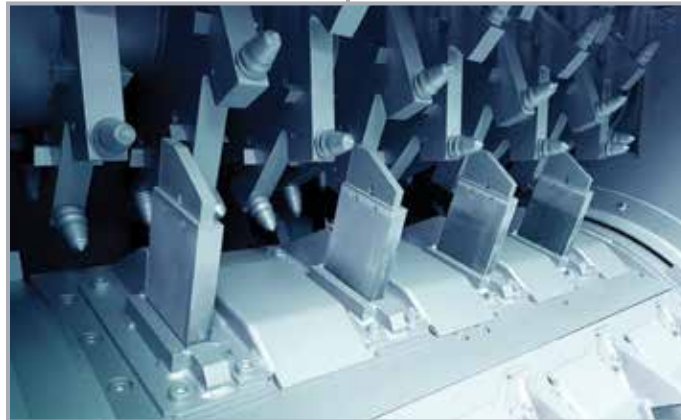
SMARTER SINGLE STREAM RECYCLING

By utilizing advanced technologies designed for single stream waste processing, operations can optimize production and produce cleaner commodities to increase revenue and maximize diversion.



THE ELEMENTS OF
**SMARTER SINGLE STREAM
 RECYCLING**

**STEP
1**



SPLIT BAGS TO LIBERATE MEDIA
 MATTHIESSEN BAG SPLITTER

The majority of single stream is collected in plastic bags which must be opened to access and separate recyclable commodities inside. The Matthiessen Bag Splitter is a high-throughput, low-energy consumption machine that efficiently tears open and empties bags of all sizes without grinding or crushing the contents inside, and optimizes downstream material processing.

KEY BENEFITS:

- Liberate waste from bags without damaging valuable recyclable commodities inside
- Efficiently prepare single stream for downstream material processing
- Save time and money by eliminating manual bag opening

**STEP
2**



SEPARATE FRACTIONS
 KOMPTECH BALLISTOR

The next step is to separate 2D films and fiber materials from larger 3D containers and objects. With the Komptech Ballistor, the 2D fraction is separated from fines as it passes across the screen elements and is carried upward. The 3D fraction rolls backwards by ballistic movement and is removed. This process reduces the burden depth of materials to be sorted downstream.

KEY BENEFITS:

- Efficiently separate 2D, 3D and fine fractions in one efficient process
- Reduce burden depth on belts for increased sorting efficiency and recovery rates
- Reduce fines and small impurities from entering downstream sorting processes

**STEP
3**



SORT TO MAXIMIZE RECOVERY
 ZENROBOTICS FAST PICKER

Lightweight fraction sorting is needed to separate plastics, paper, and cardboard so each can be recycled. The ZenRobotics Fast Picker is an AI-powered robotic sorting system that enables autonomous, 24/7 picking of lightweight waste materials. The Fast Picker robot automates quality control processes while maintaining high purity and increased product recovery.

KEY BENEFITS:

- Efficiently automates quality control compared to optical and manual sorters
- Attain a high purity of recycled materials, generating higher market revenues
- Increase worker safety and improve production rates compared to manual sorting

**STEP
4**



SELL CLEANER COMMODITIES
 CONVERT WASTE INTO REVENUE

By utilizing advanced technology designed to prepare single stream for recycling, processors consistently generate cleaner recyclable commodities and reduce production costs. By increasing the amount of clean recyclables generated, more commodities can be sold domestically, thereby increasing revenue, and lowering costs of waste diverted to landfills.

KEY BENEFITS:

- Automation consistently enhances production, improves recovery and lowers cost of operations
- More efficient separation and sorting increases the amount of clean commodities that can be sold domestically
- Higher purity leads to increased revenues



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