



Zigzag Classification System - Compact Series



Glass

Trommel fines

WEEE

Compost



Excellence in waste extraction and separation

+ Zigzag Classification System

Introducing the latest development to Impact's recycling solutions, the compact series zigzag classification system. This system utilises all the fundamental design features of our bespoke zigzag separation solution, however carefully packaged on a compact skid mounted frame, this pre-assembled, plug and play solution, can be seamlessly and efficiently added to an existing layout or included as part of a system upgrade.

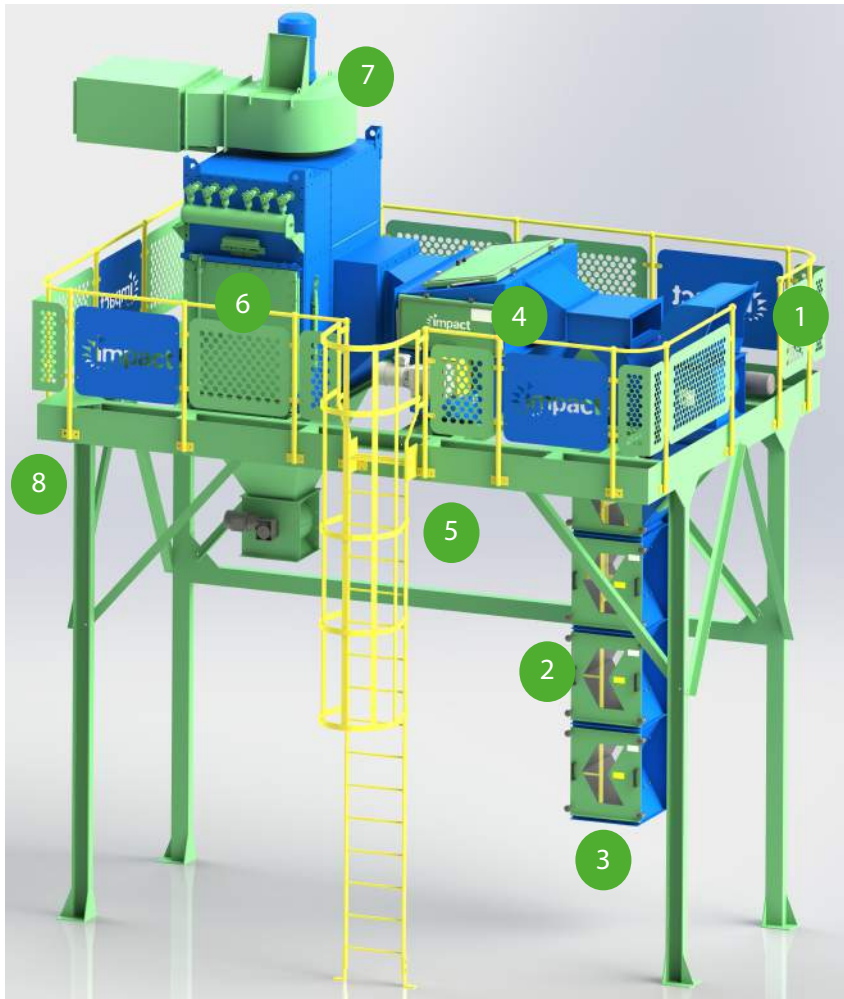
Mixed material fed into the system via a belt conveyor is processed by the zigzag system, splitting the material based on density, size and shape into a stream of heavy and light materials. Heavy material is discharged from the base of the zigzag separation enclosure, whilst the lighter material and fine dust particles are transported in the airstream and discharged at the base of the rotary material separator or from the fully integrated reverse jet cartridge style dust filter unit.

Internal surfaces are fully treated with durable materials such as Hardox or Ceramic linings, ensuring long life even in the most difficult of applications. Fully adjustable air flows ensure maximum separation is guaranteed.

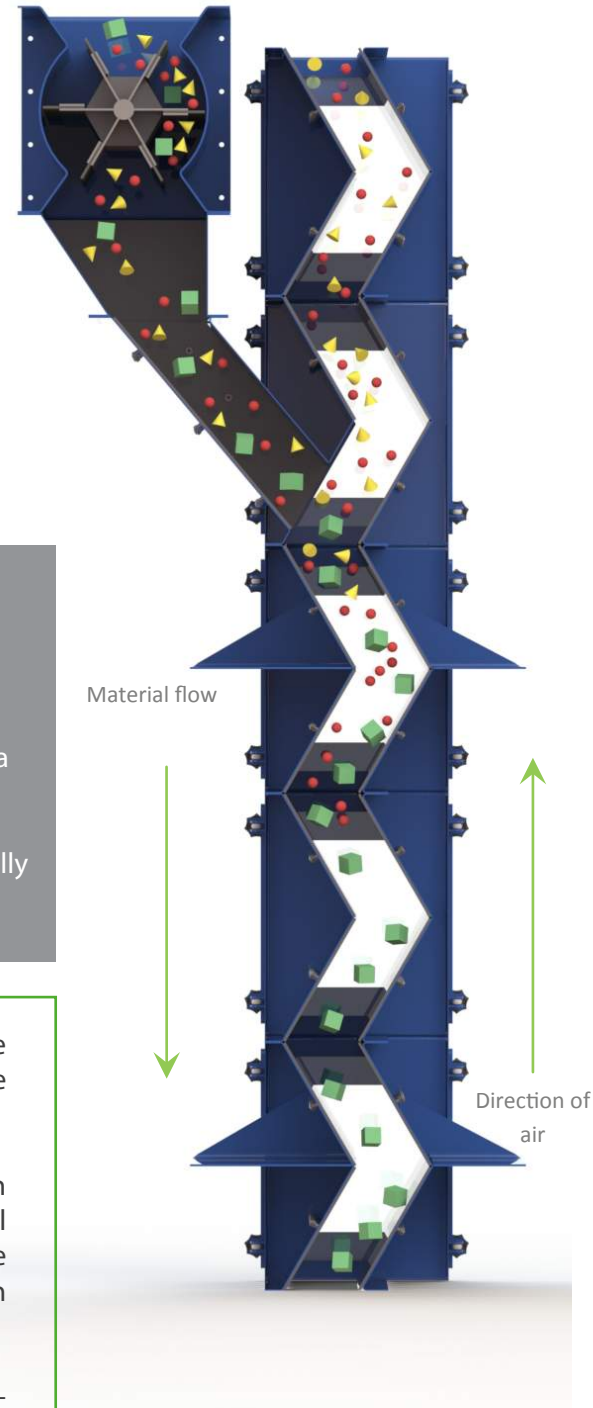
Benefits:

- Reduces landfill tax exposure
- Increase material recovery rate
- Ensure loss on ignition levels below 10% are achieved
- Increase the value of the feed material by removal of unwanted contaminants
- Fully adjustable air flows for highly efficient separation
- High material throughput capabilities
- Wide range of material applications
- Fully treated with highly durable internal surfaces for prolonged life
- Minimal on site assembly time





1. Material entry rotary valve
2. Zigzag classification chamber
3. Heavy material discharge
4. Rotary material separator
5. Light material discharge
6. Cartridge filter
7. Fan set and air exhaust
8. Supporting skid with access platforms and walkways



Features:

- Available in three model configurations 600, 800 and 1000
- Replaceable Hardox Impact plates
- Ceramic lined transitions
- Highly efficient gold series filter media with very high surface area and external over bag pre filters for prolonged life cycle
- Quick access maintenance and inspection doors
- Options to discharge ATEX explosion panel horizontally or vertically
- Full electrical control panel supplied

Trommel fines must be further separated and cleaned to further remove the calorific material that can be recycled, which will therefore result in the lower tax rate and hugely reduce landfill tax bills for the operator.

Impact's Zigzag Separation Systems have been successfully providing an efficient density separation solution for waste management companies all over the world for the last five years. With the ability to handle a wide range of materials and with specific adjustments to ensure maximum efficiency, the Zigzag is the obvious choice to minimise tax exposure.

Impact has now further advanced this technology by developing a packaged 'plug & play' Zigzag system with a reduced footprint, improved durability, simple installation and minimal wiring. Within just a few weeks, the launch has sparked an unprecedented level of enquiries, as customers recognise the huge potential in cost savings to be made.

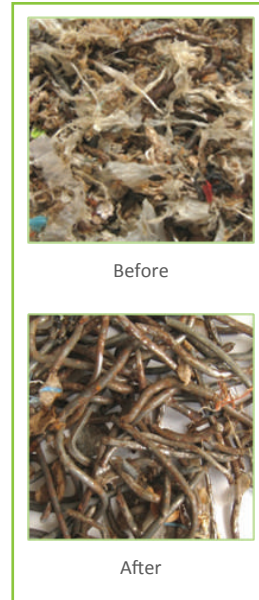
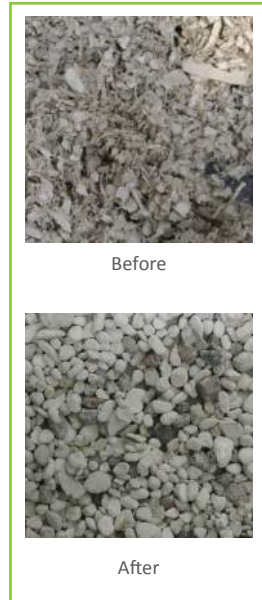
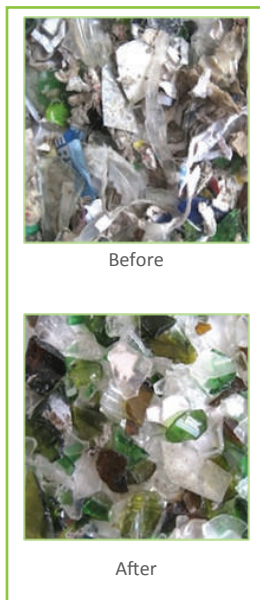
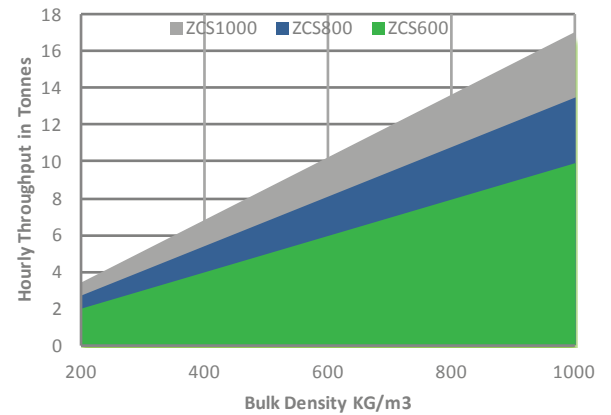
Model Configurations:

Model REF	Conveyor Width	Belt Speed (m/min)	Material depth (mm)	Material Volume / Hour	Assumed Belt Fill Density (%)	200kgs/m	300kgs/m	400kgs/m	500kgs/m	750kgs/m	1000kgs/m
						3 (kgs)	3 (kgs)	3 (kgs)	3 (kgs)	3 (kgs)	m3 (kgs)
ZCS600	550	30	50	49.5	20%	1,980	2,970	3,960	4,950	7,425	9,900
ZCS800	750	30	50	67.5	20%	2,700	4,050	5,400	6,750	10,125	13,500
ZCS1000	950	30	50	85.5	20%	3,420	5,130	6,840	8,550	12,825	17,100

Applications:

- Trommel fines to reduce LOI levels to well below 10%
- C&D material
- WEEE waste & Rigid Plastics
- Glass & Fibre Separation
- Plasterboard & Gypsum
- Compost fines
- MSW / MRF / C&I fines
- Ideally suited to 0-50mm material size with moisture levels around 25%

Zigzag Classification System Throughput



Impact Finance Options Available

Impact Air Systems are able to offer a range of flexible finance solutions for UK customers for the Zigzag Classification System from as little as £350 per week.



Watch our systems



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