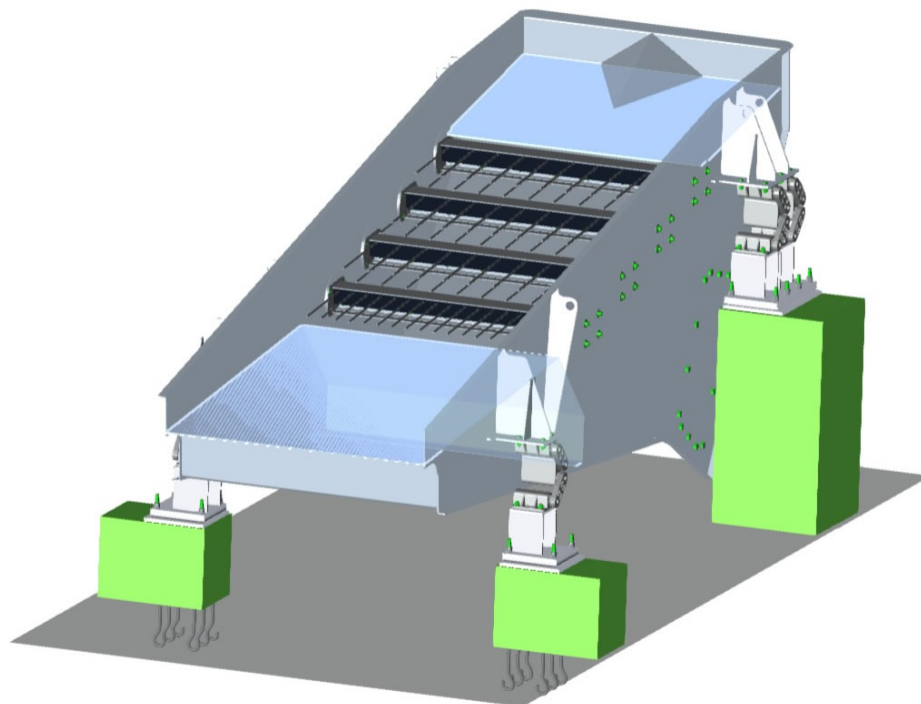


# VIBRATING FINGER SORTER

For classification of shredded Reject & Residual streams



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## Technology

The VIBRATING FINGER SORTER is essentially a vibrating deck / conveying trough with staggered, interlaced metal “fingers” instead of a flat screen surface.

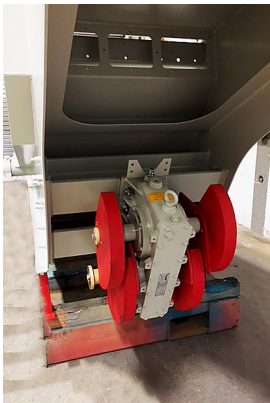
The Working Principle: Material is fed onto the vibrating deck / conveying trough which vibrates with controlled frequency and amplitude and so with conveys the loaded Reject Materials. The interlaced fingers create self-cleaning openings that allow smaller fractions to fall through. Larger, bulky, or flat items (e.g. plastic films, larger Reject agglomerations) are forwarded (or rewarded) to further (or previous) Shredding Stages.

## Features

- Key Difference vs. Conventional Screening are, no flat mesh to clog Fingers flex and vibrate, preventing jamming or wrapping and Handle irregular, wet, or sticky materials better
- Self-cleaning finger deck (prevents clogging, low maintenance)
- Adjustable vibration parameters (frequency & amplitude for tuning performance)
- Heavy-duty construction (handles abrasive and high-volume waste)
- Scalping ability (removes fines early, reducing wear on downstream machines)
- Customizable finger spacing (to define cut size, e.g., 40 mm, 60 mm, etc.)
- Modular decks / conveying troughs (easy replacement and flexible configurations)
- Low power consumption compared to rotary trommels
- Capability to handle wet, sticky, or irregular material without downtime

## Why to buy

- High uptime – Self-cleaning design reduces blockages, unlike trommels or mesh screens
- Versatility – Handles mixed waste streams, including wet and sticky fractions
- Improved downstream efficiency – Removes fines and contaminants early, extending life of optical sorters, air classifiers, and conveyors
- Low operating costs – Less energy and maintenance compared to other screening technologies
- Scalability – Modular design allows customization for throughput
- Durability – Robust build tolerates heavy-duty waste streams (C&D, bulky waste)
- Cleaner product streams – Better separation of fines vs. oversize improves material recovery rates



## **Typical & Proven Process**

- Secure Max Size of Shredded and Sorted Reject Materials (gate)
- Sort Oversize Reject Materials to be recycled back to previous Shredding Stage
- Preparing feed for optical sorters, eddy current separators, and air classifiers
- Front-end screening of mixed Rejects and Recyclables
- Protecting downstream equipment (e.g., optical sorters) from contamination

## **See the following Products as well**

- Lion Shredder
- Eddy Current
- Meri Belt Conveyor
- COMPAX screw compactor Series
- ECOMPAX and Minipress
- MSC Meri Screw Conveyors
- RSP Sludge and Residual Press

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