

Innovative Machinentechnik OG are specialists in the separation and sorting of bulk materials of many types. Dynamic innovation ensures that the company meets the growing requirements of today's issues of waste management and disposal. The Ballistic screen is designed for the separation of materials into:

- 3-Dimensional (e.g. Containers)
- 2-Dimensional (e.g. Papers/Cardboard)
- Fines



#### Wave Screen

- Combines advantages of Banana Screen with flip-flow action
- Screen accelerates and disperses material in the infeed area
- Slows the material in the discharge area to improve separation
- Non-clogging and non-binding action
- Capable of 150 T/HR of 0-4.00mm sand at 2mm cut
- Sizes up to 2.5 metres wide and 8 metres long

Applications: Sand & Gravel, Rock, Ores, Slag, Glass, Coal, Coke, Rubble Recycling, Fertilizer, Salt, Biomass, Household Rubbish.



#### OCC Screen

- Disc Screen for the separation of large cardboard
- High capacity screen of up to 80 T/HR
- Low dynamic and static loads
- Quick release shafts for ease of maintenance
- Variable disc diameters and spacing
- Variable deck angles and shaft speeds
- Optional dust enclosure

Applications: Dry Recyclable, Commercial and Industrial.



#### Air System

- Film extraction
- Clean air supply to sorting cabins
- Air density separation
- Light particle separated by air



#### Glass Breaking Screen

- Removes glass from dry-recyclable material stream
- High capacity screen of 40T/HR
- Hardox 400 discs and breaking plates
- Low dynamic and static loads
- Quick release shafts for ease of maintenance
- Overhead crane support beam with trolley
- Variable disc diameters and spacing
- Variable deck angles and shaft speeds
- Dust enclosure

Applications: Dry Recyclable, Commercial and Industrial.



#### Lamella Screen

- Screen for difficult material contaminations
- Two deck screen, upper finger deck and lower plate screen
- Large volume material screened off by fingers
- Lower plate screen can screen more effectively
- Both decks are cascaded to improve efficiency
- Minimal cleaning required

Applications: Industrial Waste, Commercial Waste, Municipal Waste, Biomass, Construction and Demolition Waste.

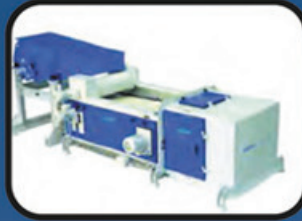


[www.kmhsys.com](http://www.kmhsys.com)



Wagner Magnete are a leading specialist in the supply of magnetic solutions since 1935. By incorporating the relevant elements of the following Wagner Magnete technologies, KMH Systems can offer you a comprehensive solution to metal recycling:

- Magnetic separators for the separation of ferrous metals from bulk goods
- Over-band magnets
- Conveyor head drums
- Stand-alone drum magnets
- Eddy Current Separators (ECS) with a vibratory feed (600-3000mm wide, Concentric/Eccentric)
- Non-Ferrous separators with high performance Neodymium magnets for specific applications



Wagner is the supplier of competitive and efficient single shaft shredders used for:

- Wood
- Cardboard
- Laminated paper products
- Clothing products

Wagner is also the supplier of the following products:

- Plastic bottle perforators
- Bale breakers
- Tyre dismantlers
- Glass crushers



## Kilkenny Mechanical Handling Systems Ltd

Raheenduff, Cuffesgrange, Co. Kilkenny, Ireland

UK: + 44 (0) 203 355 15 91

Ireland: + 353 (0) 56 7708844

Fax: + 353 (0) 56 7708843 E-mail: [info@kmhsys.com](mailto:info@kmhsys.com) Web: [www.kmhsys.com](http://www.kmhsys.com)



## Kilkenny Mechanical Handling Systems Ltd

Raheenduff, Cuffesgrange, Co. Kilkenny, Ireland

UK: + 44 (0) 203 355 15 91

Ireland: + 353 (0) 56 7708844

Fax: + 353 (0) 56 7708843 E-mail: [info@kmhsys.com](mailto:info@kmhsys.com) Web: [www.kmhsys.com](http://www.kmhsys.com)





Providers of Individual Pieces of Equipment or Turn-key Projects to the Recycling Industry.

#### Our Equipment:

- Conveyors/Elevators
- Transition Feeders
- Glass Crushers
- Automated Sorting Equipment
- Air Separation
- Screens
- Eddy Current Separators
- Over-band Magnets
- Crushers
- Shredders
- Perforators
- Balers

#### Specialists in:

- Household Dry Recyclable Material Separation
- C&I and C&D Materials
- Wood Processing Systems
- MSW Processing
- Food Waste Processing
- RDF/SRF
- Plastics Separation
- Glass Separation
- Metal Separation
- Paper Sorting



- Design office and purpose built manufacturing facilities based in Co. Kilkenny, Ireland
- Fully qualified in-house design engineers, installation technicians and project managers
- Partnerships with leading international technology providers
- Extensive portfolio of installations, national and international
- Turn-key packages with individual technologies tailored to meet each customer requirements

www.kmhsys.com



BT-Wolfgang Binder has many years of experience with optical sorting technologies. Their REDWAVE technology recognises materials by means of Near Infrared Spectroscopy (NIR) and Line Scan Camera (LSC) to correctly identify different materials and colours.



REDWAVE XRF is a system, which analyses and separates different materials. This is done by measuring the differences in their "composition".

- Materials include glass, ceramics, metals, minerals, plastics, etc.
- May include one element, several elements or a ratio of two elements, e.g. removal of leaded and heat resistant glass from waste glass.
- Sorting system combines the REDWAVE technology (fully proven system in optical sorting technology) and the X-ray fluorescence technology of Innov-X Systems.



REDWAVE for sorting of:



Paper



Glass



Cardboard



Plastics



REDWAVE CS for MRF Glass Processing

- Removal of light fraction
- Removal of ceramics and stones
- Removal of Organics and other non-glass materials



KHM Systems are the sole distributors of REDWAVE technology in the UK and Ireland. Our experienced engineers and project managers are ready to work with you from the initial concept phase, up to the final implementation stage of your desired REDWAVE system.

www.kmhsys.com



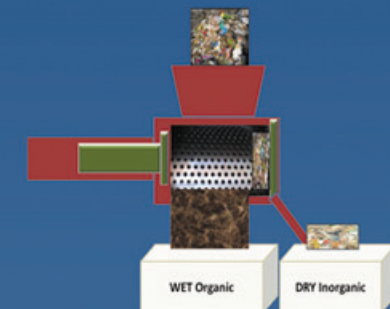
## Preparation of MSW & Food Waste using the VMpress

For the Processing of:

- MSW (Municipal Solid Waste),
- Brown bin source separated food waste,
- Depackaging of expired food waste.

This is carried out in a simple effective and economical process. Even after various separations have been achieved at the household, collectors and processors still have considerable quantities of waste to be managed or disposed. All of this waste has a considerable amount of energy which can be recovered through the VMpress Process. A simple solution converts waste into a resource.

Wet organic in MSW, approx. 40% is separated from the dry combustible fraction is delivered as OMG (organic matter gel) to produce electricity by anaerobic digestion, made possible by the physical and chemical characteristics from the high pressure extrusion process of the VMpress. This material can be processed through existing purification plants. The remaining 60% can be processed as RDF.



Through the use of The VMpress system, KMH Systems can provide you with an:

- Economically viable solution to mixed waste treatment / disposal
- Environmentally sustainable recycling process
- Renewable energy fuel



www.kmhsys.com