

Environmental Technology





Vibro Conveyor, Screening and Magnetic Technology from a Single Source

- AEROSELECTOR
- Circular Motion Vibrating Screen
- Destoner
- Dewatering Screen
- Eddy Current Separator
- Feeders & Tubular Feeders
- Fine Sorting System IFE SORT
- Flip-flop Screen TRISOMAT
- Hard Particle Separator
- High Intensity Magnetic Separator
- Linear Motion Vibrating Screen
- Magnetic Drum Separator
- Magnetic Overband Separator
- Magnetic Pulley
- Scalper Screen
- Sizer
- Waste Screen
- Waste Screen VARIOMAT

Smooth operation and maximum efficiency

IFE's environmental technology solutions have been developed based on decades of experience with a wide variety of waste and material flows. They are individually adapted to the requirements and cleverly combined with vibro conveyor, screening and magnetic technology from IFE. The result: efficient processes, durable machines, minimal maintenance.

With IFE, customers have a reliable partner for material tests, machine design, installation, training, maintenance, spare parts and repairs.

Versatile solutions for a wide range of material flows

The composition and properties of waste can vary greatly depending on the region, sorting process and much more. Material compositions also change over the years, because the only constant in waste is change.

The IFE team will find the right solution for your specific requirements in a direct consultation, with material tests in our in-house test center and based on a great wealth of experience.



C&I and MSW



C&D



(E-)Scrap



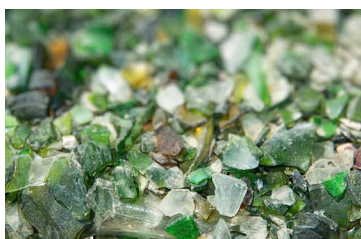
Organic Waste



Packaging



Plastics



Waste Glass



(Waste Incineration) Slag



Waste Wood



C&D

Inhomogeneous material flows containing mineral building materials, iron, copper and much more require robust processing technology in order to recover recyclable materials economically and reduce landfill costs. Depending on the country and region, high proportions of wood or insulation material (styrofoam) also need to be recovered.

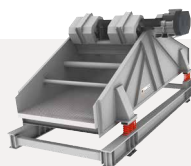
Our Solutions



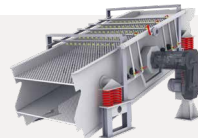
■ Scalper Screen



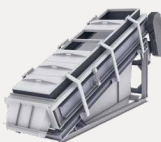
■ Waste Screen



■ Linear Motion Vibrating Screen



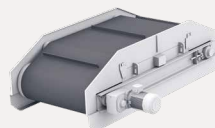
■ Circular Motion Vibrating Screen



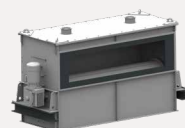
■ TRISOMAT



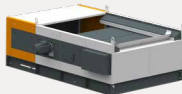
■ Sizer



■ Magnetic Overband Separator



■ Magnetic Drum Separator



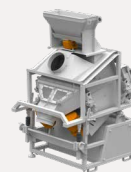
■ Eddy Current Separator



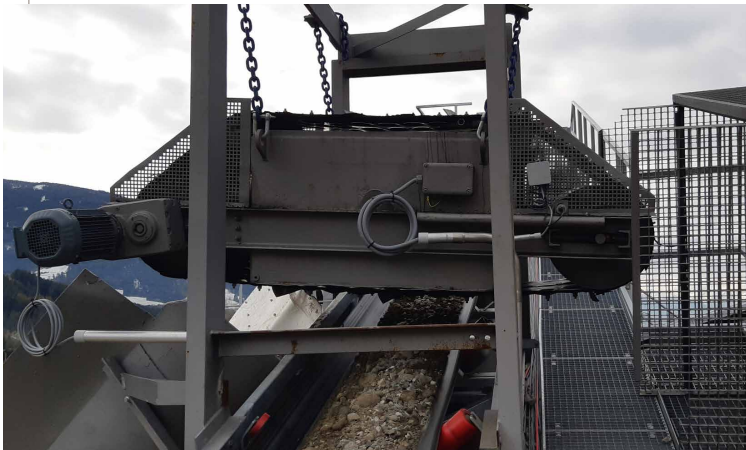
■ Hard Particle Separator



■ Destoner



■ IFE SORT





C&I and MSW

Metals, glass, foils, plastics, wood; commercial and household waste can be extremely diverse. With individual solutions from IFE, it is possible to increase material recycling rates, recover valuable resources or even process high-calorific waste that is not suitable for further recycling as a substitute fuel.

Our Solutions



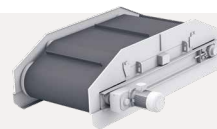
■ Waste Screen



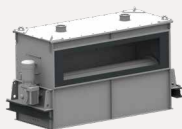
■ VARIOMAT



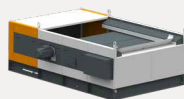
■ TRISOMAT



■ Magnetic Overband Separator



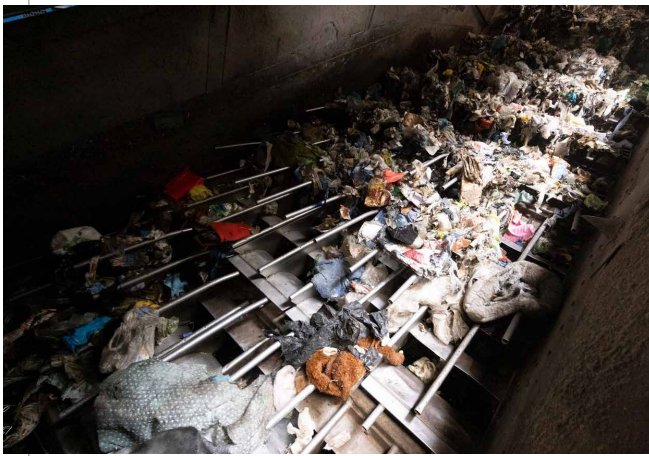
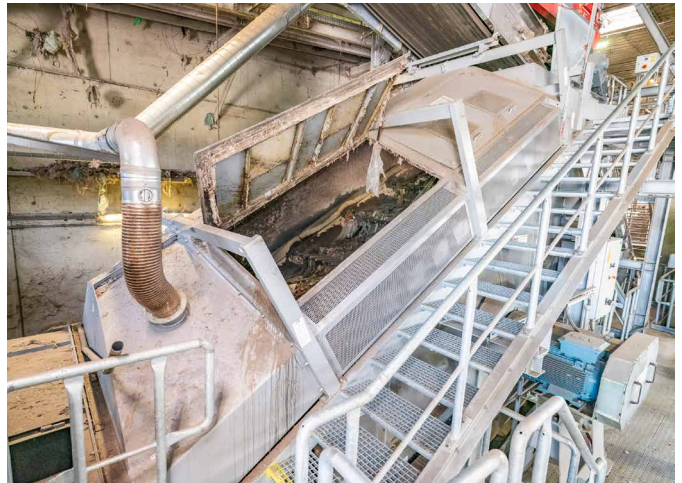
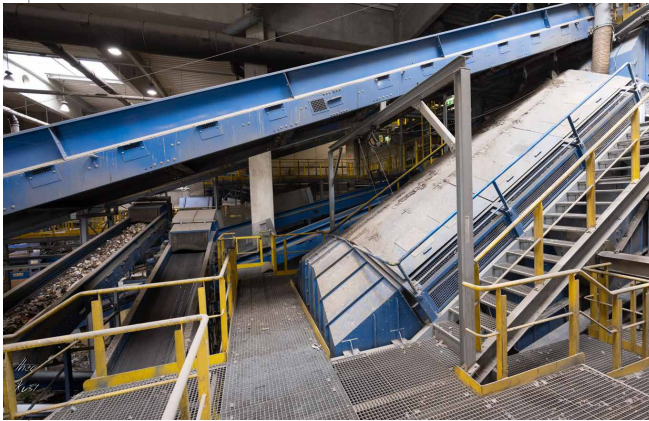
■ Magnetic Drum Separator

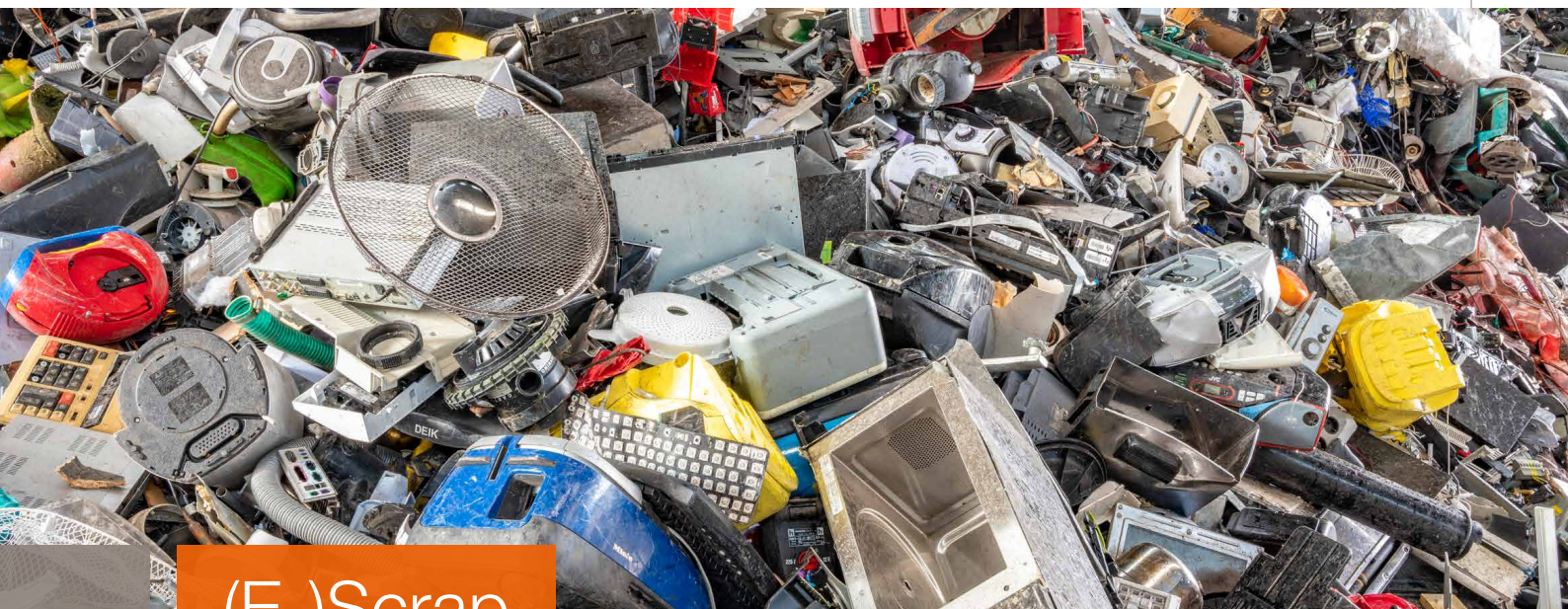


■ Eddy Current Separator



■ IFE SORT





(E-)Scrap

Demanded quality parameters in conjunction with strongly fluctuating prices on the secondary raw materials market underline the need to process contaminated steel and electronic scrap into high-quality secondary raw materials. The amount of by-products that have to be disposed of later should be kept as low as possible. IFE machines ensure efficient cleaning, screening and removal of impurities.

Our Solutions



■ Scalper Screen



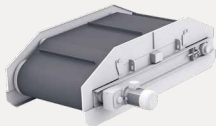
■ Waste Screen



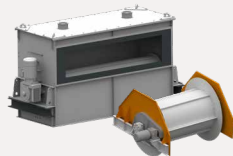
■ VARIOMAT



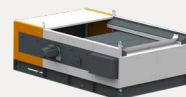
■ TRISOMAT



■ Magnetic Overband Separator



■ Magnetic Drum Separator



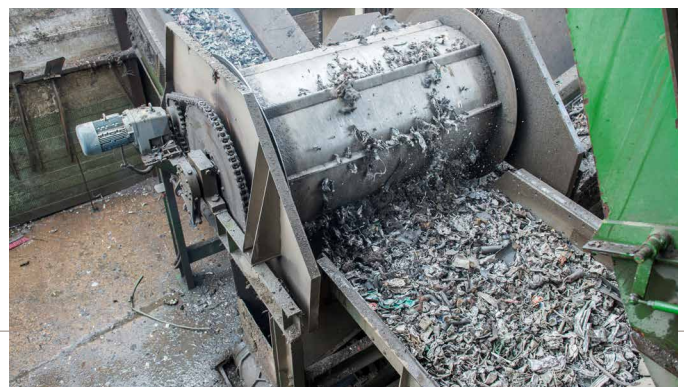
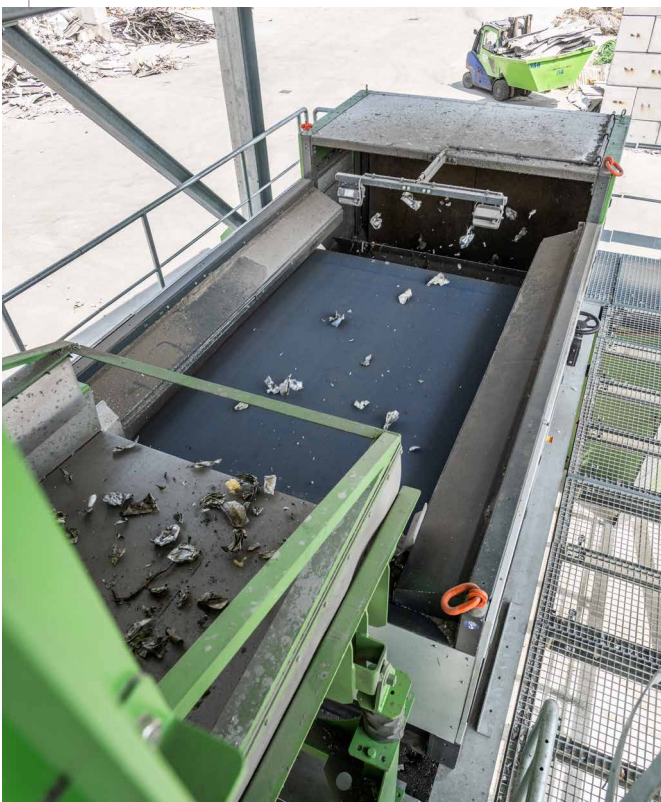
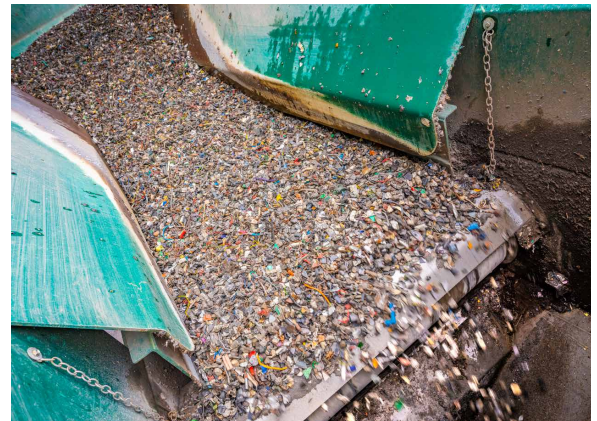
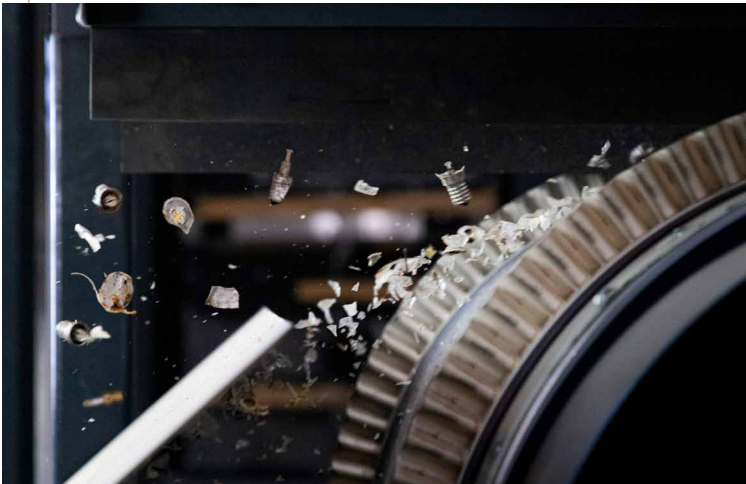
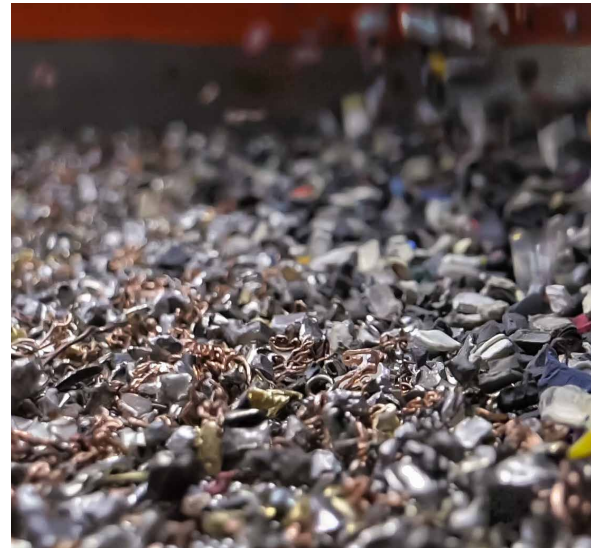
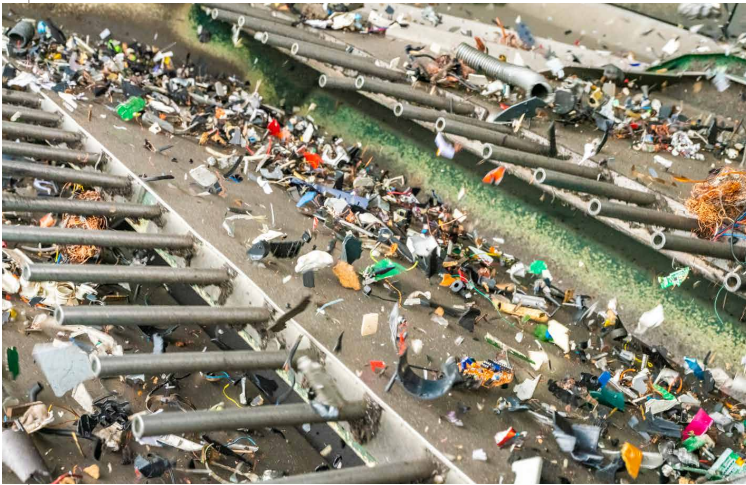
■ Eddy Current Separator



■ Destoner



■ IFE SORT





Organic Waste

Household and garden waste contains a wide variety of recyclable materials - iron, aluminum and high-quality plastics. Decades of sophisticated screening and magnetic technology from IFE make it possible to recover these efficiently. With the AEROSELECTOR, an innovation was introduced in 2021 that extracts stones, structural material and film from the compost screening residue in one go. Combined with the IFE VARIOMAT and magnetic separators, the result is an efficient complete solution.

Our Solutions



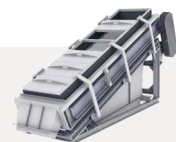
■ AEROSELECTOR



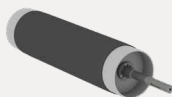
■ Waste Screen



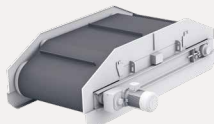
■ VARIOMAT



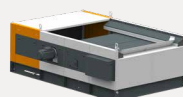
■ TRISOMAT



■ Magnetic Pulley



■ Magnetic Overband Separator



■ Eddy Current Separator



■ Hard Particle Separator



■ Destoner





Packaging

As collection and recycling rates increase, so do the demands on modern processing technology. IFE provides sophisticated solutions for the cost-effective processing of various material streams – from household waste collection (e.g. yellow bags) to PET bottles and aluminum cans from deposit systems. IFE also offers customized technologies for the recovery of valuable resources in other areas of application.

Our Solutions



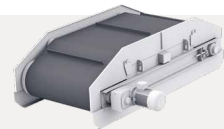
■ Waste Screen



■ VARIOMAT



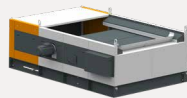
■ TRISOMAT



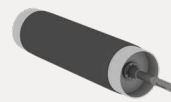
■ Magnetic Overband Separator



■ Magnetic Drum Separator



■ Eddy Current Separator



■ Magnetic Pulley



■ IFE SORT





Plastics

For both short-life (e.g. packaging) and long-life plastic products (e.g. household items, electronic devices) and production waste - IFE vibro conveyor, screening and magnetic technology ensures efficient processing with high sorting purity. Equipment tailored to your needs ensures metal-free, ideally sorted and classified results.

Our Solutions



■ Waste Screen



■ VARIOMAT



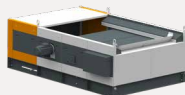
■ TRISOMAT



■ Magnetic Drum Separator



■ HI Roller Separator



■ Eddy Current Separator



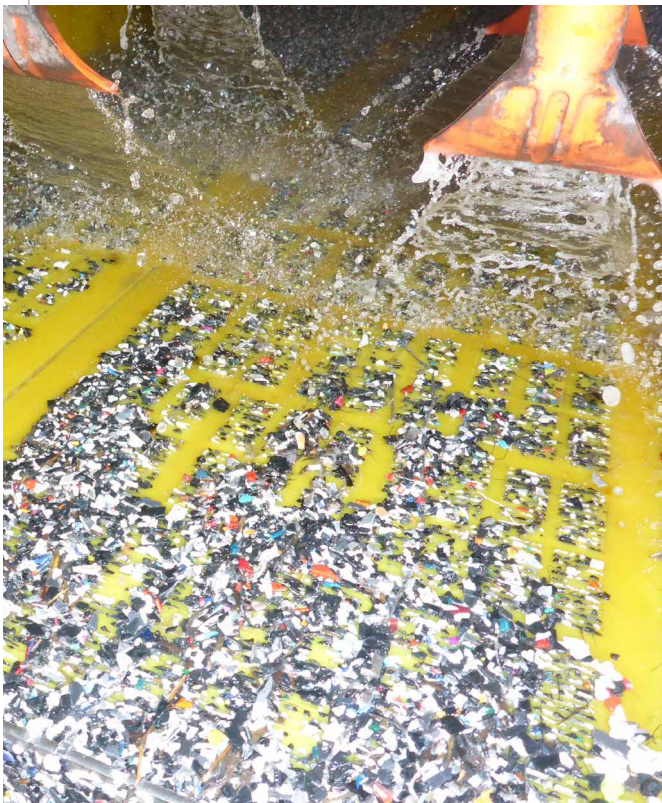
■ Hard Particle Separator



■ Destoner



■ IFE SORT

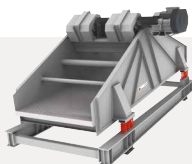




Waste Glass

Glass cullet is highly abrasive and during processing a fine fraction (sand, dust) is produced that acts like sandpaper. IFE machines are supplied with optimized wear plates and the drives are protected against the ingress of dust. When it comes to processing waste glass and flat glass, IFE is a leading provider of solutions for removing contaminants such as labels, corks, caps, aluminum, wood, and plastics.

Our Solutions



■ Linear Motion Vibrating Screen



■ Circular Motion Vibrating Screen



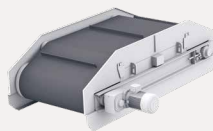
■ Dewatering Screen



■ TRISOMAT



■ Sizer



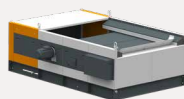
■ Magnetic Overband Separator



■ Magnetic Drum Separator



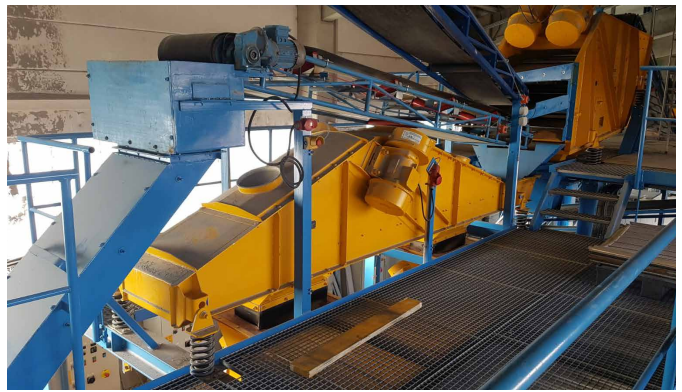
■ HI Roller Separator



■ Eddy Current Separator



■ IFE SORT

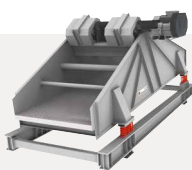




(Waste Incineration) Slag

The slag and ash resulting from incineration plants and substitute fuel power plants should not be regarded merely as waste. They often contain a large potential of raw materials. The aim of IFE is to extract the maximum amount of metal from the slag in order to return it to the material cycle. Screens, magnetic drums and eddy current separators are used in the treatment process and separate both ferrous and non-ferrous metals from the slag. Ideally, thanks to IFE technology, the residual slag can be reused as a building material, thereby reducing the need for landfill.

Our Solutions



■ Linear Motion Vibrating Screen



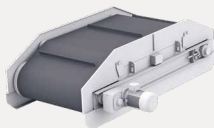
■ Circular Motion Vibrating Screen



■ Dewatering Screen



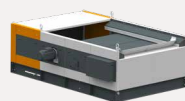
■ TRISOMAT



■ Magnetic Overband Separator



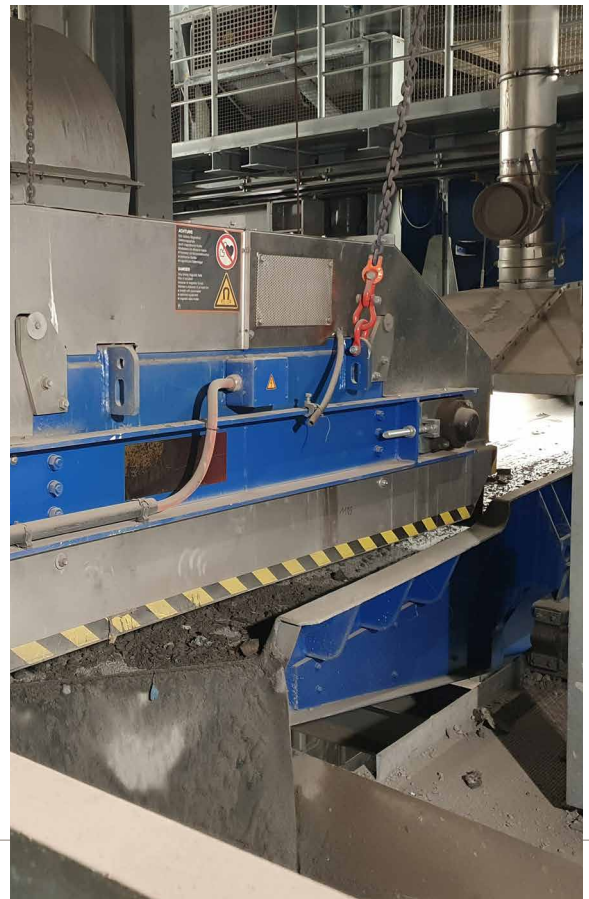
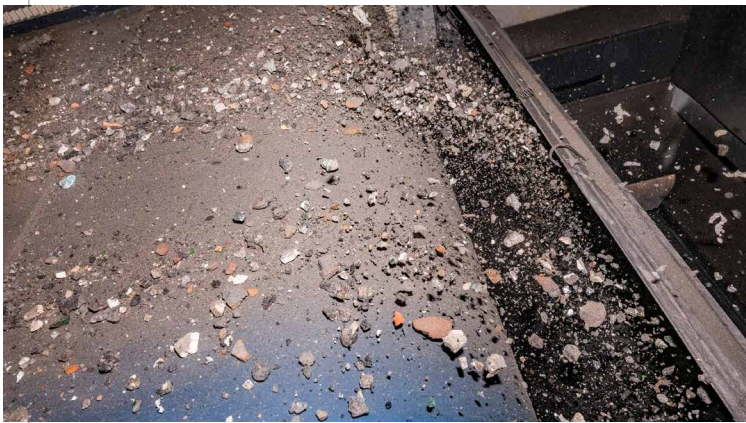
■ Magnetic Drum Separator



■ Eddy Current Separator



■ Scalper Screen





Waste Wood

In the extensive field of wood processing, high levels of quality and throughput are required at low operating costs. As the only manufacturer to offer complete solutions from the product areas of vibro conveyor, screening and magnetic technology, IFE provides the necessary know-how for the design and dimensioning of appropriate solutions for the processing of fresh and waste wood products.

Our Solutions



■ Waste Screen



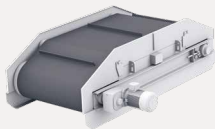
■ VARIOMAT



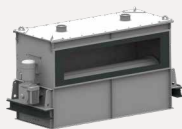
■ Circular Motion Vibrating Screen



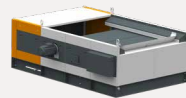
■ TRISOMAT



■ Magnetic Overband Separator



■ Magnetic Drum Separator



■ Eddy Current Separator



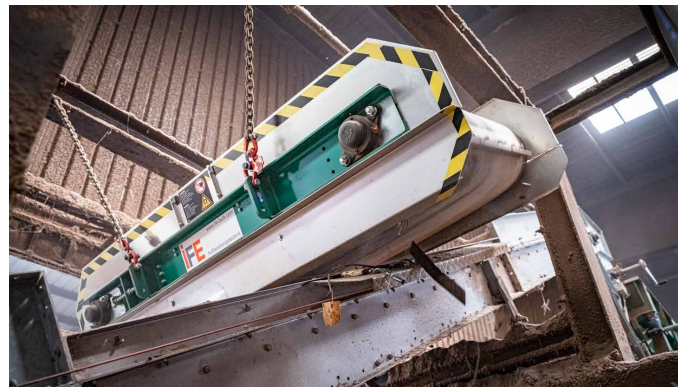
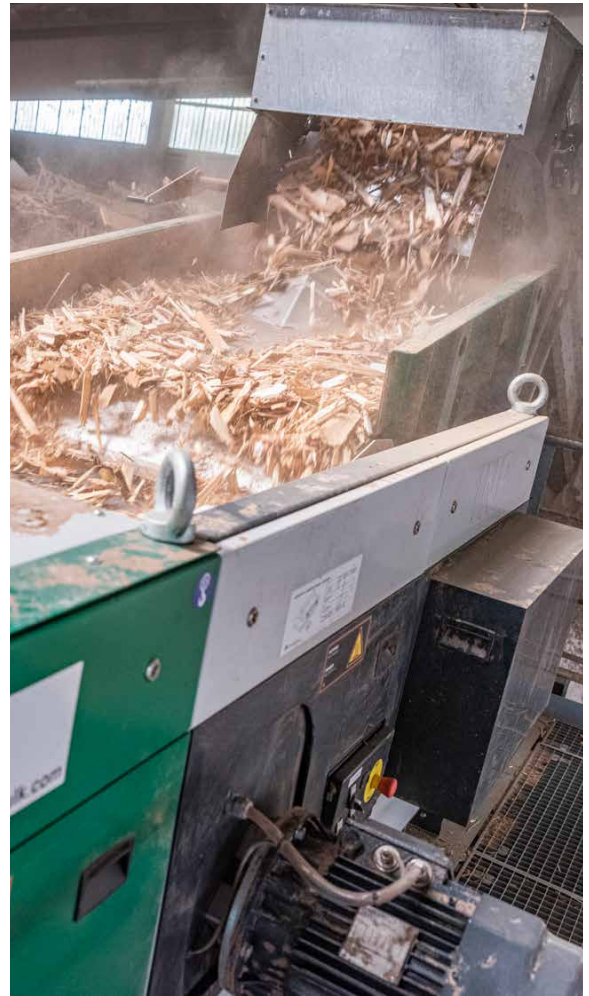
■ Hard Particle Separator



■ Destoner



■ IFE SORT



The IFE Test Center

Flexible settings, simple and fast processing for meaningful results

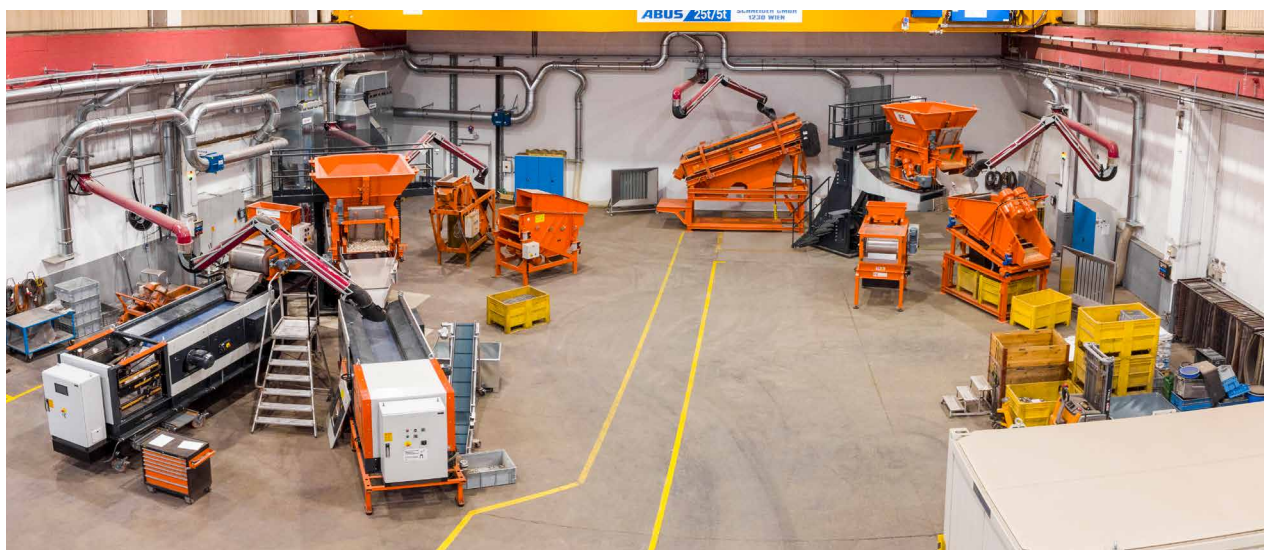
Feasibility, throughput and investment security - at the IFE Test Center, we demonstrate the potential of your material handling process.

Thanks to our broad expertise in process and application technology, the process is viewed and analyzed holistically. We use the information obtained to find the best solution for your material handling tasks and provide you with the results in a detailed report.

Material compositions are often very different, especially in recycling. Material tests are therefore useful for determining the optimum machines and configurations for efficient processing. They also provide valuable insights into which secondary raw materials can be obtained in which purities. As all machines are custom-made, these results are incorporated directly into the machine design and enable optimal adaptation to the respective materials.

Advantages

- flexible in terms of process and equipment
- short test duration, no long waiting times
- low administrative effort
- meaningful results
- cost-effective



i-STEP

SMART TOOLS FOR
EFFICIENT PROCESSING

i-STEP FOR EVERY MATERIAL HANDLING PROCESS

Sensors and smart analysis tools form the basis of our new i-STEP product division. They form the starting point for further digital services. This opens up new possibilities for our customers to optimize the operation of their material handling machines.



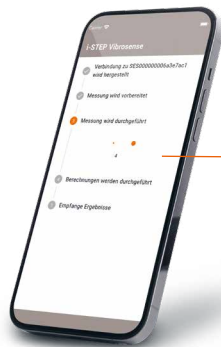
VIBROSENSE SENSOR

FOR ALL VIBRATORY CONVEYORS AND SCREENING MACHINES

- Connection via Wi-Fi and Bluetooth
- With battery (rechargeable)
- Screw mounting or magnetic mounting
- For operation in industrial environments (IP67)
- Logic on the sensor for fast results
- Easy to retrofit

VIBRATION ANALYSIS SYSTEM

- Record operating status
- Detect deviations
- Reduce downtimes
- Extend machine service life
- Enable preventive measures



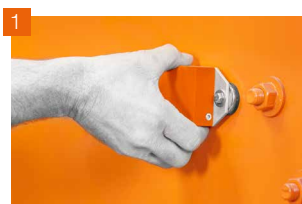
VIBROSENSE APP



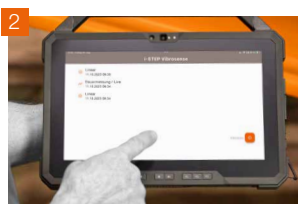
APP FOR VIBRATION ANALYSIS ON-SITE

- Complete vibration analysis of the machine in just a few seconds
- For all common platforms (Android™ and iOS)
- Easy to use
- Share and export directly from the app
- Single and continuous measurement available
- Bluetooth connection to the sensor

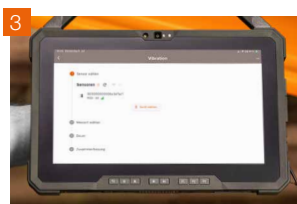
VIBRATION ANALYSIS - FAST AND EASY



1 Attach sensor to side wall



2 Select vibration measurement



3 Connect sensor and start measurement



4 The results can now be exported

i-STEP OPERATOR

ONLINE PORTAL AND COMPREHENSIVE REMOTE ANALYSIS TOOL

- Real-time display of important machine parameters
- Extensive evaluation and analysis functions
- Integration of IoT and machine learning models
- Maintenance information and error messages at a glance
- Optimal maintenance planning based on condition-based data
- Can be used for IFE and third-party machines, third-party sensors can be integrated
- Documentation and spare parts directly accessible





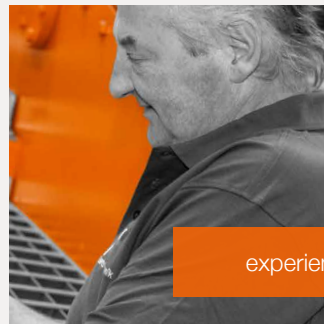
committed



IFE
Material Handling



competent



experienced



partnership

THE ORANGE WAY INTO THE FUTURE

IFE has a history, has a tradition. We explore, develop, collect experiences, work hard, deliver highest quality and keep our promises.

But all that would be worth nothing – without OUR CUSTOMERS!



**Safe. Circular.
Climate-friendly.**
C2C Certified® SILVER by gugler*
drucksinn.at



klimatefreundlich gedruckt



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