

ELECTRONIC SCRAP

ADVANCED SENSOR-BASED
SORTING TECHNOLOGY FOR
OPTIMIZED RESULTS



RECOVER FOR VALUE

The growing demand for high-value secondary materials makes high-quality recycling increasingly attractive. Waste of electrical and electronic equipment (WEEE) such as computers, TV-sets, fridges and cell phones is one the fastest growing waste streams in the EU, expected to grow to more than 12 million tons by 2020.

A CASE: EU LEGISLATION DEMANDS INTENSIFIED RECYCLING

Reducing landfills is vital to maintaining the ecological balance in the future.

The European WEEE Directive requires increasingly binding recycling targets for used electrical equipment, stipulating a 45% recycling rate of electronics and electronic waste by 2016, increasing to 65% by 2019. Manufacturers are also encouraged to maximize the use of recoverable and recyclable materials in their products – which means the market is growing.

* EU Directive 2012/19/EC

With TOMRA's pioneering efficient sorting technology, separating valuable materials from E-Scrap makes it worthwhile in every aspect.

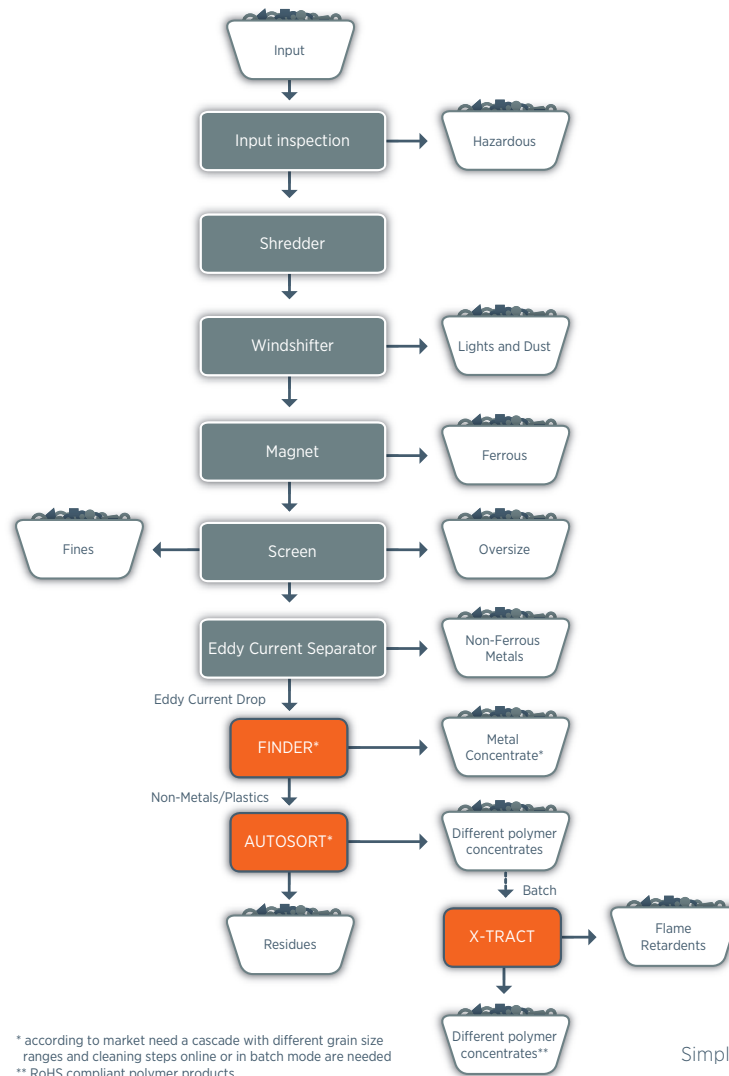


THE SOLUTION: SEAMLESS AND FLEXIBLE

Electronic equipment has a complex design. Input material are prepared for sorting via shredders, air separators, magnets, manual controls, screens and non-ferrous metal separators. All of these are vital to ensure that the various components of E-Scrap are initially separated for **efficient and effective sensor-based sorting** in the following steps.

Pre-processed material, such as Non-ferrous Metals and Plastics, are further sorted by TOMRA's FINDER, COMBISENSE, AUTOSORT, and X-TRACT, which can be **combined with one another and flexibly integrated** into any sorting system. In contrast to manual sorting, this means **greater efficiency, minimal material loss and lower operational costs**.

The result: According the market needs a maximum added value high mono-fractions with 99% purity can be achieved with minimum number of sorting steps.



Simplified Flowchart -
E-Scrap Sorting

THE RESULT:
CONSTANTLY
VALUABLE YIELD

THE TOMRA ADVANTAGE

TOMRA PRODUCTS
PROVIDE THE **HIGHEST -
AND MOST CONSISTENT
- PRODUCT YIELD IN
THE INDUSTRY**

ESTABLISHED, EXTENSIVE
AND SPECIFIC APPLI-
CATION KNOWLEDGE
LEADING TO **TAILORED
SOLUTIONS TO MEET
INDIVIDUAL CUSTOMER
REQUIREMENTS - AND
OPTIMIZED RESULTS**

SHORT PAYBACK PERIOD
OF THE TOMRA MACHINES
RESULTING FROM
RELIABLY HIGH-QUALITY
OUTPUT

**SUBSTANTIALLY LESS
DOWNTIME, GREATER
OUTPUT STABILITY
AND LOW ENERGY
CONSUMPTION** THROUGH
ROBUST MACHINERY
AND PIONEERING
TECHNOLOGY

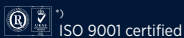
**FIELD-PROVEN PROCESS
AND MACHINE DESIGN**
DEVELOPED WITH
INDUSTRY PARTNERS

MODULAR DESIGN AND
SIMPLE INTEGRATION

**SUPERIOR ALL-AROUND
SERVICE SUPPORT** WITH
TOMRA CARE

AS A TECHNOLOGY LEADER, TOMRA SORTING RECYCLING CONTINUES TO BE PIONEER IN SENSOR-BASED SORTING IN THE WASTE AND METAL RECYCLING INDUSTRIES. WITH OVER 4,800 UNITS INSTALLED IN MORE THAN 50 COUNTRIES, OUR EXPERTISE AND SUPERIOR SERVICE ALLOW US TO DELIVER HIGH-PERFORMANCE SORTING AND ANALYTICAL SOLUTIONS TO OUR CUSTOMERS IN A BROAD RANGE OF APPLICATIONS.

Find out why:
www.tomra.com/recycling



We print on 100% recycled paper.
TOMRA Sorting's innovations are helping
to produce it.

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