

Smasher

An innovative process to eliminate
all harmful components



Recovery of raw materials

Aluminium, batteries, accumulators,
plastics, copper, capacitors and
small toner cartridges

No manual disassembly



Key Machinery



The SMASHER process description

The approach implemented by the SMASHER system results in vastly improved separation and elimination of the many harmful components contained in WEEE. This, compared to the present results obtained, either by manual dismantling and sorting or by industrial recycling plants in operation throughout Europe.

Smasher Concept

The SMASHER system was developed for WEEE pre-crushing which, followed by hand picking of the harmful components, amounts to a WEEE recycling installation in full accordance with the present EU regulations.

Liquide Cristal Displays (LCD) are separated by the SMASHER from their housing and may show cracks, however the LCD's will not break.

Printed Circuit Boards (PCB) will either remain unbroken when processed by the SMASHER, or break into large pieces, facilitating the hand picking. Smaller parts may be recuperated as a clean fraction using appropriate means of separation.

Outstanding advantage

The main advantage of this mechanical pre-crushing followed by the separation of harmful components, is the elimination of labour intensive and costly manual dismantling of the WEEE products.

Any Questions?
We will answer!

Input

approx. 70 - 75 % IT and telecommunication equipment
approx. 10 % small electric appliances
approx. 5 % big electric appliances
approx. 3 % user electronic
approx. 5 % medical equipment
approx. 2 % electric / electronic tools
approx. 2 % measurement and control instruments

Output

The following table lists the total quantity of harmful components recovered.

	Essai 1	Essai 2	Total
Batteries, button cells	0,54 %	0,65 %	0,60 %
Capacitors	0,51 %	0,58 %	0,55 %
Printed Circuit Boards	1,81 %	1,46 %	1,64 %
Toner Cartridges	0,16 %	0,20 %	0,17 %
Liquid Cristal Displays	0,09 %	0,02 %	0,06 %
Lamps	0,004 %	0,004 %	0,004 %
Cables	0,08 %	0,18 %	0,13 %
Compontens recovered from units+parts	0,04 %	0,01 %	0,02 %
Microprocessors	0,003 %	0,004 %	0,004 %
Total	3,24 %	3,11 %	3,18 %
Components excluding pcb, cables, processors	1,34 %	1,46 %	1,40 %



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