

ELECTRONIC WASTE RECYCLING





BRIEF OVERVIEW

Universal Recycling Company (URC) has processed and recycled ferrous and non-ferrous scrap for over 70 years. We are a founder member of the Metal Recyclers Association of SA (MRA), a member of the Institute of Scrap Recycling Industries (ISRI), as well as a member of the International Aircraft Fleet Recycling Association (AFRA).

Over the past 30 years, URC has specialised in the processing of complex obsolete scrap such as computers, telex machines, calculators, cellphones, recording devices, telephone exchanges, decoders, photocopiers, fax machines, console game controllers and all other types of electronic scrap containing metals, plastic and other organic materials.

Obsolete electronic scrap is purchased from a wide variety of sources; large and small computer companies, banks, state departments and defence department, as well as from the private individual cleaning his home or office.

The input material is first put through a 1200 HP shredder which breaks up the material into pieces of up to 130mm and less. The shredding process breaks up the electronic scrap so that the various materials can begin to be separated.

Firstly, the dust is suctioned out by air and removed from the system by a cyclone. The waste air is then passed through a Liquicell multi-stage in-line scrubbing system that ensures that only clean air is emitted.

A rotary magnet removes the ferrous fraction, which is sold to steel mills and foundries as raw material.

The non-magnetic fraction is then screened in three sizes and by heavy media, eddy current magnets and water separation tables is separated into inorganics (plastic, wood, paper), the heavy fraction (copper, brass, zinc lead and stainless steel) and the light fraction (Aluminium).



Our plant operate in an environmentally friendly manner, limiting any air, water, soil or sound contamination and produce a vital metallic raw material for reuse both domestically and for the export market.

We have concreted our processing yard and collect all run-off rainwater for reuse which has been diverted into various underground sumps and dams built around the yard. We adhere to the Occupational Health and Safety Act No. 85 of 1993, which includes the regulation under Machinery and Occupational Safety Act 6 of 1983.

Universal Recycling Company are ISO 9001:2015 certified as well have a Hazardous Waste Licence with the Gauteng Department of Agriculture and Rural Development.

All material that arrives and leaves our facility must pass through our Radcom radiation sensors. All material over the legal limit is then reported to the National Nuclear Regulator (NNR) or the Department of Health (DoH) for safe disposal.

All explosive material we receive is reported to the Bomb Squad of the SAPS and disposed of in a safe manner,

Universal Recycling Company has a closed door policy , i.e. we do not purchase any material for cash. Payment is only done by electronic transfer directly to the seller's bank account. Private individuals must show proof of identity. Our closed door policy also forbids the sale of any parts for reuse. All material purchased is destroyed from the purpose for which it was originally intended and, if required, **Universal Recycling will issue a Certificate confirming the destruction.** We also welcome our suppliers to witness the destruction of their material at our facility.

UNIVERSAL RECYCLING COMPANY (PTY) LTD

Registration number 1976/001606/07

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Hazardous Waste Licence

