

# Metals Recycling

**Recycling has never been more important. Cost-effective processes can be profitable, ensure compliance with new legislation and are good for the environment.**

Wilfley Metals Recycling, a division of Holman-Wilfley Ltd, are specialists in the recovery of valuable metals from scrap material - including the smallest particles of gold, silver palladium and platinum.

The company can offer a number of recovery processes, each designed to maximise the recovery of valuable metals while meeting legislation and minimising environmental impact.

Holman-Wilfley Ltd, the parent company, is an established supplier of gravity separation equipment for the metal recycling industry. In many cases the technology has been adapted from Wilfley systems that proved internationally successful in the minerals processing industry.

With electronic scrap, the valuable metals are sorted and then a final wet process produces a concentrate for direct smelting. To maximise



Wet table installation

the recovery of copper core from wire for example, dry copper/plastic separation is followed by a final wet process system.

Holman-Wilfley systems also process the dust component produced during upstream dry recovery methods used in scrap metal and car shredding operations. This dust component is treated using refined mineral recovery techniques. The objective is to generate a metal-free organic waste for incineration, removing this growing mass of waste from landfill, and to recover, for re-use, the valuable metal components.



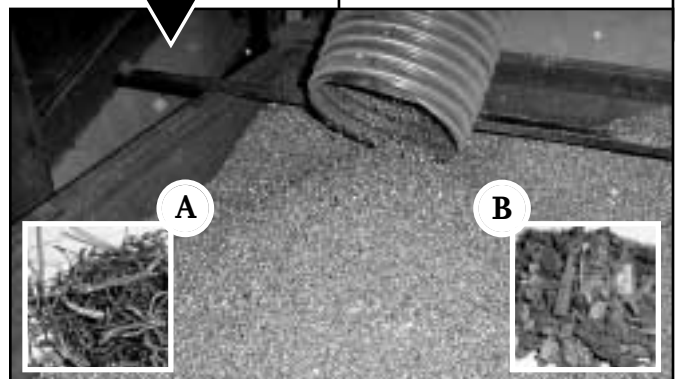
Typical feed material

Interestingly, Holman-Wilfley processes are also called upon to separate metals from other recyclable materials. Plastic recycling is a good example, with metal 'contaminants' being removed and the pure plastic then being easily reprocessed.

Importantly, Wilfley's process design answers the concerns and requirements of the European Commission under its 'WEEE' directives (Waste from Electrical and Electronic Equipment).

Holman-Wilfley Ltd will work with clients to offer advice, supply components such as shaking tables or offer a complete recovery solution for the reprocessing of fine metal wastes.

Typical recovered products including copper wire (A) and organic waste (B)



# Holman-Wilfley

## Key Benefits

- Simple gravity/magnetic recovery systems
- Environmentally attractive, low power consumption
- Full water recycle
- Complete process design, plant supply, and full testing services available
- Pilot facilities available

## Typical Applications

- High grade metal values (Pd, Pt, Au, Ag) from electronic scrap
- Copper recovery from wire recycling plants
- Secondary metal recovery from slag
- Scrubber dust metal recovery
- Waste metal removal from plastic recycling
- Hot processing of underground telecommunications cables



For more information, please contact us at:

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# Holman-Wilfley