CEtech ScrollTherm® – E-SCRAP Treatment Process

Benefits

- Reduces pre-treatment sorting and labor uses automated removal of larger pieces of steel, aluminum, and plastics prior to input into ScrollTherm unit.
- ScrollTherm treatment removes all organics and residual aluminum from escrap, thereby simplifying most separations prior to critical material recovery.

How Does ScrollTherm Work?

- Shredded e-scrap is continuously fed into all-electric ScrollTherm unit.
- All organics (epoxy, plastic parts, printed circuit boards, wire insulation, etc.)
 are gasified by thermal desorption/decomposition (no combustion occurs).
- Non-separable (small or assembled) aluminum pieces are converted into alumina powder for easy removal.
- Volume reduced e-scrap is cooled, carbon and alumina fines are removed, and concentrated metals transferred for critical material recovery.
- Critical materials are more efficiently recovered using existing technologies.



STV75 Pilot Test Unit

Critical Materials: Gold, Silver,

Platinum, Palladium, Nickel, Cobalt, Copper, etc.