

This laboratory solvent extraction and electrowinning pilot plant was designed and manufactured by SX Kinetics for a project to recover zinc from EAF (electric arc furnace) dust.



Project: sxk-65
Client: Immanuel Technological Solutions
Location: Mississauga, ON, Canada
SX Plant
Stages: 6
Capacity: 200 mL/min (org + Aq)
Recycle: Option for organic or aqueous
EW Plant
Capacity: 180 g Zinc per hour
Cathodes: 4
Anodes: 5
Rectifier: 0 to 300 amps, 0 to 6 volts

Items Provided:

- PVC mixers, settlers, over flow weirs, after-settlers, and carbon columns
- Variable speed mixer motors with constant torque output and digital rpm display
- High efficiency curved blade SX impellers with 316L stainless steel shafts
- Electrowinning cell with electrolyte distribution manifold
- Stainless steel cathodes with edge strips and lead alloy anodes
- Rich and lean electrolyte tanks with electrolyte feed and circulation pumps
- Rectifier with constant regulation of current or voltage output
- Completely assembled and tested prior to shipment

SX Kinetics, Inc.

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