



Portable SX Plant 1

SX Kinetics designed, manufactured, and assembled this pilot plant inside a 40' sea container. The mobile plant was operated at various electro-plating shops to demonstrate the recovery of chromium from spent plating bath solutions.



Project: sxk-21
Client: Versatile Industries / Battelle
Location: Ohio, USA
Stages: 5
Capacity: 32 L/min (org + Aq)
Recycle: optional organic or aqueous

Items Provided:

- A 40 foot shipping container with containment liner, lights, and ventilation fan
- Mixer-settlers encased in FRP with coalescing baffle and adjustable aqueous weir
- Exhaust header connected to each mixer-settler for removal of organic vapours
- SX impellers coupled to helical in-line speed reducers and TEFC motors
- Feed and transfer tanks with centrifugal magnetic drive pumps
- Process control components to include pH controllers and flow transmitters
- Process monitor system with telephone dialing in the event of process failure
- Electrical components to include emergency stop contactor
- Completely assembled inside a shipping container and tested prior to shipment
- Process hazard review, on-site installation instructions and operating manual

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