

Advantages of the HighTurbulence® Pickle

- **High Turbulence** – This patented system uses a specially designed nozzle configuration to produce highly turbulent acid throughout the processing tray. The wires are completely submerged in turbulent fluid that effectively breaks down the boundary layer region of spent acid. A continuous supply of fresh acid to the wire surface greatly accelerates the pickling process, permitting much shorter immersion lengths. This system has proven to be superior to the old “wave” and “flood weir” systems.
- **Multiple Stages** – Each highly turbulent stage can be operated at an independent concentration and temperature. Configured with progressively higher concentrations towards the final stage, the acid can be consumed to as low as 2% at the entry, resulting in cost savings on waste treatment and raw materials.
- **Low maintenance**– The design incorporates rugged low maintenance vertical pumps that eliminate the costly and failure prone mechanical seals of horizontal pump systems.
- **Easy access** –Quick opening hatches are strategically located in the top cover to provide easy access to the interior. This eliminates the heavy lifting mechanisms and bolted covers of older designs.
- **Rugged fiberglass construction** – The tanks are constructed with premium quality acid proof resin reinforced with corrosion resistant glass fibers. This tank design offers higher strength and higher temperature ratings than polypropylene tanks.
- **Level, Temperature and Concentration Control** – Each pickling section is supplied with a sight-glass, low level switch and temperature probe. The panel has PLC controlled alarm functions with individual temperature controllers/indicators for each section. We offer optional electrical immersion heaters and a continuous acid concentration monitoring and control system.
- **Laminar flow curtains** – Smooth laminar flow double curtains at each end of the system provide excellent fume control. This proven technology has been refined to provide a reliable low flow water seal.
- **Quench system** – The quench tank employs high turbulence flow to rapidly breakdown steam pockets surrounding incoming wire. The system includes a sturdy pump, piping, level control and proportional digital temperature control. The tank is hot-dip galvanized or optionally made of stainless steel to prevent corrosion.
- **Improved Flux System** – The flux system incorporates several features offering improved performance: turbulent process tray, high quality titanium heaters, energy saving hood with access hatch, level indication and low level alarm, digital temperature control and high efficiency air wipes at the flux exit.



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