

# CHEMCUT

## 2300 Series



### Small Production Lot and Prototype Systems

#### Versions Available For:

- ❖ Chemical Cleaning
- ❖ Ferric Etching
- ❖ Cupric Etching
- ❖ Alkaline Etching
- ❖ Resist Developing
- ❖ Resist Stripping
- ❖ 15, 20 & 30 Inch Widths
- ❖ 24 X 30 Capable



#### Excellent Choice For:

- ❖ Prototype Shops
- ❖ Small Lot Shops
- ❖ Development Labs
- ❖ R&D Departments
- ❖ Universities
- ❖ Specialty Processing
- ❖ Alternative Chemistries
- ❖ Milling Special Alloys
- ❖ Waste Reduction

Products

The Chemcut 2300 series is a family of compact, double sided, horizontal, conveyORIZED, oscillating-spray processing systems built with the same proven techniques and quality used on Chemcut's larger systems. The 2300 series is ideally suited for laboratory, prototype and small production lots of printed circuits as well as chemically machined parts, instrument panels and nameplates.

This series of wet process equipment is available in several configurations designed for copper and ferric chloride etching, alkaline-ammonical etching, resist developing, chemical cleaning and resist stripping. Special versions of the machines are available for specialty processing, such as etching with hydrofluoric and nitric acid mixtures and high temperature etching (up to 160°F, 71°C).

The etching and developing main processing chambers have both top and bottom oscillating spray banks. Sumps as small as 28 gallons, 106 litres, in the fifteen inch version reduce chemical waste and keep the initial chemistry cost low. All configurations feature an interlocking-wall, leak-tight design with a sloped bottom to facilitate rapid drainage and cleaning. Rinse sections are available in multiple configurations including basic fresh water rinses and multi-stage cascade rinses.

Clear PVC covers lift off to provide easy access to the process and rinse chambers. Magnetic door safety interlocks are standard.

The 15 inch (380 mm), 20 inch (508mm) and 30 inch (762 mm) wide conveyor systems have snap out fibreglass rods with large elastomer wheels that will not harm work. Optional Flextrak conveyors are available for transport of flexible materials down to 25 microns. Variable speed dc motors power the gear driven conveyor and the synchronized spray oscillation system.

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### 2300 Features And Options



All 2300 systems feature oscillating top and bottom spray tubes in the main etching and developing sections. Each tube can have up to four nozzles. Different types of nozzles and flow rates are available to optimize the performance for the application. The standard conveyor features large elastomer wheels for reliable transport. Thin material conveyor options for transporting material as thin as 25 microns are also available.



Precision DC gearmotors operate the main chamber oscillation and the conveyor.

A polyethylene cooling coil is standard in the main process chamber. The main chamber also includes titanium heating. Alternate materials are available for special chemistries.



The main process chamber features separate top and bottom valves to regulate and balance the spray pressures. Spray pressure valves are also included in most rinse chambers. Pressure gauges are included as standard features.



All 2300 systems feature the main controls located in an eye-level control panel on a swivel mount. A digital temperature control and a digital conveyor control are standard on all 2300 systems. Illuminated switches and indicators show the status of the system.

Dryers are available as both built-in options for most systems and as independent drying only systems. The dryer features a Chemcut AFD dryer head and air blower built into the system. The blower is equipped with an air inlet filter.



Additional information and photos are available at [www.chemcut.net](http://www.chemcut.net)