



**CHEMSTAR is a modular series of Polypropylene and Stainless Steel AISI 316 Modules for the combination of Lines in the fabrication of printed circuit boards.**

The wide range of Modules are ideally suited for the production of Chemical Cleaning and Micro-Etch lines in the surface treatment preparation of inner-layer and outer-layer before dry film lamination and soldermask coating.

This series includes Chemical Spray/Rinse modules for brightening the surface of the panels with chemical cleaning action before pre-treatment scrubbing surface process.

This series is available to accommodate panel widths of 650 (25,5") and 760mm (30").

**Chemstar** series can process panel from 0,5 to 5 mm (.020" to .200") thickness as a standard, but can easily works with boards down to 0,05 mm. (.002") using the Thin Material System or up to 12,7 mm. (.500") with the Thick Board Option.

The machine has a self supporting structure totally constructed in the same materials and is available from left to right conveyor direction or mirror version.

The upper spray pipes can be removed from the top and **lower spray pipes can be easily removed from the side of the machine** and exact repositioned after cleaning and maintenance operations.

The Modular design offers the possibility to add various modules in case of new production requirement.

The configuration line is in relation to the specification of the of chemical supplier; lines have been produced and installed in cooperation with different chemical suppliers.

**Chemstar** has different versions of dryers in relation of the process and the drying capability required.

Automatic spraying pressure adjustment, solution make-up devices can be implemented as options with **Chemstar** series for many different process of the fabrication of Printed Circuit Board.