



AUTOMATED CHEMICAL SOLUTIONS

Chemicals and Controllers for PWB Fabrication

Technical Data Sheet

AUTOstrip PC-5040

Panel Count Controller



Description

The AUTOstrip PC-5040 provides accurate, reliable control for resist stripping processes. The AUTOstrip PC-5040 controls solution concentration, resist loading and, most importantly, process breakpoint. Automatic delivery of chemical concentrate directly from factory packaging minimizes chemical handling. The AUTOstrip PC-5040's user friendly, easy-to-install design allows it to be used with all conventional resist stripping processes.

Features

- High quality process instrumentation
- Automatic delivery of replenishment chemicals from factory packaging to the process
- Compact, wall mount design

Benefits

- Accurate, reliable process control
- Minimizes chemical handling
- Saves space and is easy to install

Theory of Operation

Process breakpoint is the critical variable in controlling a resist stripping process. Maintaining a consistent breakpoint over a narrow range opens the process operating window and minimizes the chance for many of the major quality issues associated with stripping and subsequent processes. The two process variables that have the greatest impact on process breakpoint are resist loading and working solution concentration. The PC-5040 employs a panel count replenishment scheme to control resist loading and a proportioning pump to mix resist stripper concentrate with water to achieve the desired operating stripper concentration. Controlling resist loading and stripper concentration to good tolerances will produce a consistent and reproducible breakpoint.

The PC-5040 allows the user to vary chemical feed rate, replenishment time and panels processed per chemical addition to empirically determine the best replenishment scheme to control resist loading. The proportioning pump automatically draws concentrate directly from a drum and mixes it with the motive water at a set proportion that is independent of the water flow rate. This control strategy consistently maintains process breakpoint with less than 5% variation.

System Requirements

Electrical	120 VAC, 60Hz, 10 amps
Dimensions	42" X 34" X 10" (H X W X D)
Water	1 – 10 gpm