

# ALCHEMY C-TYPE

## COMPUTER AIDED SOLDER LEVELER

Alchemy, designed and manufactured by CEMCO has proven to be the preferred solder coater by many of the Worlds leading PCB fabricators and assemblers. Alchemy systems are able to provide exceptional quality finishes, resulting in improved surface planarity, excellent solder distribution, a clean bright finish and fewer defects. The Alchemy 'C-type' combines innovative engineering with a high level of sophisticated control features.

Alchemy's patented design uses computer automation, providing precision adjustments via a touch screen. Pre-set process limits are continuously monitored and regulated. Leveling speeds up to 30 meters per minute result in reduced solder contact time and a thinner intermetallic layer.

The Alchemy 'C - type' is capable of achieving first pass yields in excess of 2,500 panels per shift. A combination of convection hot air preheating and less active chemistry help to reduce thermal shock and minimise ingress of surface organics. When compared with other alternative coatings, an Alchemy system continues to remain a cost competitive process.

Imagine being able to control the main operational functions of a HASL system through a touch screen. For example: no more attempts at manual adjustment of hot airknife gaps or offsets – now they can be set to within 0.025mm (0.001") by entering your selection on a screen in as long as it takes to press the 'buttons'. Alchemy allows simple, fast control of all the parameters affecting the processing of PCB's, while leaving the panel itself as the biggest variable in the equation. Alchemy is not just another horizontal leveling system; it is the next step in soldering technology.

If you are considering whether to invest in HASL equipment but have concerns about the eventual removal of Lead in electronics, you can be assured that Cemco-FSL have spent considerable time testing compatibility with SnCu alloy with great success. Whatever your requirements, Alchemy is the solution.



- Patented system design
- Computer automation ensures total process control
- Precision adjustments via touch screen
- Continuous monitoring of pre-set process limits
- Fast set-up times using unique batch recipes
- Modem back-up for total customer support
- Convection Pre-Heating reduces thermal shock and chemical absorption
- Statistical analysis facilities
- Reduced maintenance – greater productivity – simple to operate
- Lead Free compatible
- Straight or 'U-shaped configuration'
- Optional bar code batch identification

