

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.

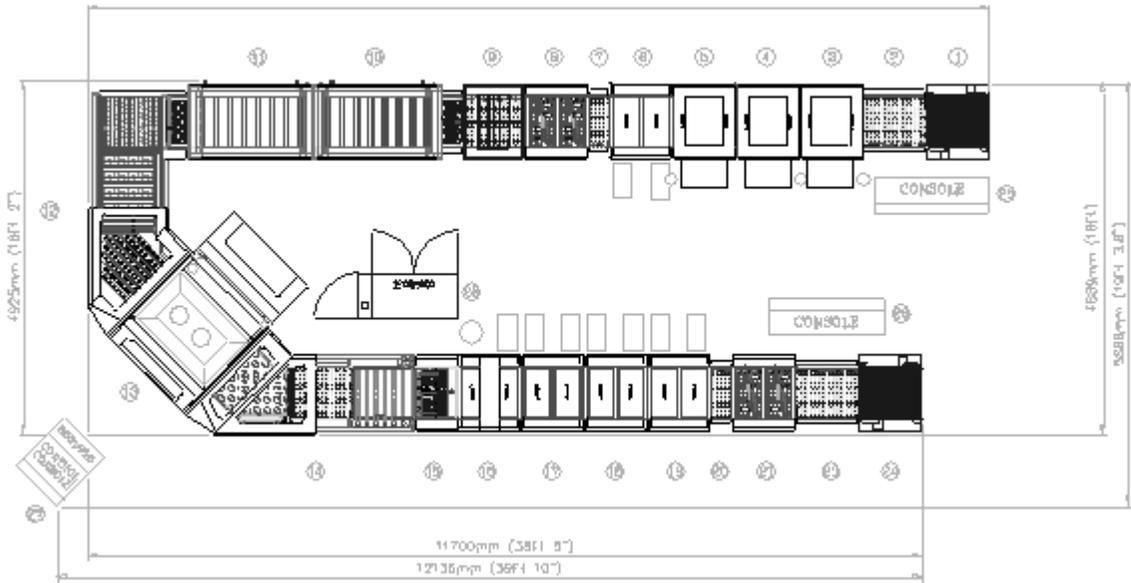
If you are considering whether to invest in HASL equipment but have concerns about the eventual removal of Lead in electronics, you can be assured that Cemco-FSL have spent considerable time testing compatibility with SnCu alloy with great success. Whatever your requirements, Alchemy is the solution.



- 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

Despite concerns about the long term viability of HASL, multiple installations of the 'C - type' world-wide have proven that Alchemy continues to meet the ever changing industry needs. Availability of space has also been considered. Cemco-FSL has designed the 'Core' section to permit the user to make the best use of the space available. Much of Cemco-FSL's resources are spent further developing Alchemy's proven technology to keep abreast with the growing demand for finer line, densely populated PCB's.

The Alchemy 'C-type' boasts the ability to produce an exceptional quality product with aesthetic appeal.



Typical C-Type configurations

