

DAPC installs new Jet Scrubber

DAPC is committed to investing in new equipment to optimize our production and delivery capabilities. As part of this investment, DAPC recently purchased a Wise Jetstar 650 Scrubber and Cleanstar filtration system. This replaces our existing silicon oxide brush scrubber. Wise worked with DAPC to reengineer and optimize the machine specifically to fit within the production line.

The Jetstar is used to prepare the boards for soldermask application. It gently cleans the boards with low pressure jets of pumice at a pressure between 20 and 30 PSI. This process cleans the surface of the board prior to the soldermask to prepare the PCB for the right texture/roughness for optimal soldermask adhesion.

Soldermask must endure numerous thermal cycles and shocks before the board is installed in the finished product. The epoxy based soldermask and the board expand and contract at slightly different rates during those cycles, so creating the best surface conditions to promote adhesion is critical.

The Jetstar reduces shorts by removing unetched flakes from the traces. It also reduces opens by being a gentler scrubbing process which will not tear fine traces off the board. This is critical when trying to produce boards with two mil lines and two mil traces.

Some of the manufacturing benefits of the Wise Jetstar Scrubber are:

- Improved surface topography preparation prior to soldermask
- No residual surface contamination
- Reduced water consumption
- Less solid waste treatment
- Greatly reduces the risk of board damage due to no mechanical brushes or devices touching the board
- Reduced trace or board damage



Featured is Pat MacQueen, one of our skilled operators on the Jet Scrubber.