



EUROPEAN CIRCUITS ULTIMATE CLEANING & DRYING SOLUTION

MBtech NC25 PCB Cleaning System



CUSTOMER REVIEW

"We bought a MBtech NC25 PCB cleaning systems from GEN3 & it was installed earlier this year. The main reason I opted for the NC25 was because it was the only system in the marketplace that had a Convection / Vacuum Drying Chamber fitted as standard. A lot of our products have connectors fitted that are difficult to dry out completely. The NC25 was installed by the very competent & knowledgeable GEN3 Engineers & the cleaning / drying results I am getting are fantastic. After Sales Support I receive from GEN3 is very satisfying. I am completely satisfied with the service I receive from GEN3."

Mark Briscoe - Managing Director

CHALLENGE

European Circuits, a printed circuit board (PCB) assembly and manufacturing company, offer a range of services from design to production of custom PCB assemblies and components. European Circuits were looking for a complete drying solution for connectors fitted on their products. Traditional cleaning methods such as air blowing or manual wiping, were proving time consuming, and residual moisture in the connectors would pose a threat to product quality and reliability.

The presence of moisture in connectors can lead to several issues, including:

Corrosion: Moisture can cause oxidation and corrosion of the metal contacts within the connectors, degrading their conductivity and potentially leading to signal interference or complete failure over time.

Short circuits: Water is a conductor of electricity, and any residual moisture in the connectors can create short circuits between adjacent contacts, causing malfunctions or damage to the connected components.

Contamination: Moisture can also facilitate the growth of mold, mildew, or other contaminants within the connectors, further compromising their performance and longevity.

Insulation breakdown: The insulating materials used in connectors can become compromised when exposed to moisture, leading to potential electrical leakage or breakdown of the insulation properties.





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SOLUTION

After thorough research, European Circuits decided to invest in the MBtech NC25 PCB Cleaning System, supplied by GEN3. This system stood out due to its unique Convection/Vacuum Drying Chamber, which is specifically designed to dry out even the most difficult-to-reach connectors.

MBtech NC25 Process description;

1. High precision cleaning Spray under immersion process Patented double filtration
2. In-line multitank design
3. Operates in a closed loop without any cleaning fluid or water waste
4. Lowest operating cost on the market
5. Unique vacuum drying technology

The MBtech NC25 Advanced Applications;

- Flux cleaning on SMT and THT boards
- Inter-operation, before coating
- Cleaning of components
- Defluxing after rework
- Conformal coating stripping

- ✓ Bare Boards
- ✓ PCBAs
- ✓ DCB
- ✓ Power Modules
- ✓ Lead Frames
- ✓ Wafers



IMPLEMENTATION

The installation of the MBtech NC25 PCB Cleaning System was seamlessly carried out by GEN3's competent and knowledgeable engineers. European Circuits was impressed with the professionalism and expertise displayed during the implementation process. Once operational, the NC25 system delivered outstanding results, effectively drying out the connectors on European Circuits' products. The cleaning and drying performance exceeded expectations, ensuring that their products met the highest quality standards.

CONCLUSION

The successful implementation of the MBtech NC25 PCB Cleaning System by European Circuits highlights the importance of investing in innovative solutions and partnering with reliable suppliers. By addressing their specific drying challenges, European Circuits has enhanced their product quality, streamlined their manufacturing processes, and gained a competitive edge in the market.