Dalistick® revolutionizes brush plating!

Dalistick: an innovative, safe & easy-do-it concept!

The Dalistick concept is a major achievement in Surface Finishing. Developed by DALIC in France, the Pioneer of brush plating, it enables with the Dalistick Work-station, various selective electrochemical treatments without generating any leakage of electrolyte, thanks to solutions circulating in closed loop from the tool to the container.

- It is designed to achieve, on site, on the aircraft or in workshop, thin metallic layers and surface-finishing on steel substrates or light alloys.
- It allows to perform these treatments without any pre-masking and with a simplified surface preparation. The treatments can be achieved in any position, on curved, horizontal or vertical surfaces and edges.
- The small volumes of electrolytes are recycled in closed circuit without leakage. The Dalistick work-station is a practical and environment-friendly plating system.

Dalistick: a wide range of applications...

Dalistick can be used for production and for repair applications, fulfilling various protective, functional and also esthetical requirements:

- Anti-corrosion on aluminium alloys with CAA & SAA anodizing.
- Surface preparation before bonding on light alloys through anodizing.
- Anti-corrosion of steel with zinc, zinc-nickel or LHE cadmium.
- Electrical conductivity, preparation before soldering, with gold or silver.
- Shielding & preventing contact corrosion with tin alloys and zinc-nickel..
- The quality achieved is equivalent or superior to that produced by the traditional brush plating technique. In other words, it meets the toughest industrial & environmental specifications for selective surface finishing.

What is the Dalistick work-station?

The Dalistick work-station is a versatile electro-plating unit combining a Dalistick tool, a rectifier, a temperature regulating unit to cool anodizing solutions, a pumping unit, a process monitoring and a trolley for optimum mobility.

- Description:
  - Dalistick Case with tool ref: 03300
  - Rectifier NCDK ref: 0510 DK 10A – 50V
  - Regulation Unit UCDK ref: 15004
  - DK Dalipump / Trolley ref: 15030

- Specifications:
  - Weight: 50 kg  Height: 1460 mm
  - Length: 865 mm  Depth: 475 mm
  - Electrical supply: 230 V AC - 50 Hz - 11,3 A max.
  - Compressed air: 7 bars (10 bars max.)  Consumption: 25 m³/h

- Designed according to ISO 9001 V.2000 and EC standards.
- US & European Patent. Dalistick is a registered TM

DALIC® Experts in Selective Surface Engineering...

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Perform CAA anodizing with Dalistick for enhanced protection vs chromate

- CAA anodizing is recommended by Airbus in SRM 51.21.11 because it provides a protection superior to a chemical conversion coating by chromatation. Areas subject to corrosion should be therefore anodized with a CAA process.
- CAA anodizing is approved by Boeing in the specifications BAC 5849 and BAC 5019.
- CAA anodizing is also approved by Airbus, Aernnova for Embraer, BAE, CASA, Dassault, EADS, Eurocopter, Sonaca... Dalistick allows to perform these treatments on wing slats, rivets, airframe, without any pre-masking and with a simplified preparation process.
- CAA & SAA anodizing are approved by SAFRAN, by Goodrich, by Liebherr,... for APU, for hydraulic and power transmissions equipments.

Plate safely Cadmium LHE with Dalistick

- Cadmium plating is approved by Airbus in the A.319, A.320, A.321 SRM.51.21.11.
- Cadmium LHE plating is approved by Boeing in the SRM 20.42.10 and in the BAC 5854.
- Cadmium LHE plating on steel landing gear components is approved by Messier-Dowty as per the PCS 2141.
- DALIC Cd 2023 is tested LHE as per the ASTM F-519 specification in order to ensure that it is low hydrogen embrittling.
- Certify your operators with the technical training required by aircraft manufacturers like Boeing in SSC.7649. Ask us for training programs suited to your needs: Specific programs exist for CAA anodizing and for Cadmium LHE plating. Let’s examine training in our or in your facilities.

Other brush plating requirements?

- Resize worn components: consider Nickel plating or hard anodizing.
- Protect from galvanic and contact corrosion: consider Zinc-Plating.
- Prepare aluminum before bonding: consider PAA with PANTA anodizing included by Boeing in SRM 51.40.5 & 51.70.10, and by BAE in BAEP 7701.
- Alenia, BAe, CFM, Dassault, EADS, Emirates, Eurofighter, Goodrich, Hispano-Suiza, KLM, Lufthansa Technics, Qantas, Rolls-Royce, Sabena Technics, SAS, Snecma, Turbomeca, Tupolev,... have approved or are using selective plating.
- And also for helicopters: The selective plating process is approved by Eurocopter, Westland, Agusta, Bell, Sikorsky...
- Do not hesitate to submit us your requirements, we’ll study them with the technical support of DALIC in France, pioneer of brush plating technology.