Almight® Aluminum Plating Tool

nb technologies
consulting engineers

Almight® - fully automated equipment for dry in / dry out wafer plating

NBT is a *Pioneer*

in aluminum plating from ionic liquids

with automated electroplating tool

for semiconductor applications

NBT is a *System Provider*

equipment electrolyte process service

Highlights:

- ***Almight®* automated plating tool**
  - up to 200 mm wafer format (300 mm planned)
- ***NB IoLiPlate® Al* electrolyte family**
  - based on EMImCl:$AlCl_3$
  - various bath additive systems available
  - analysis of all bath components established
- ***Process expertise*** for customer specific application
- ***User-friendly*** methods and ***bath maintenance***

Background:

- Process requires dry, inert atmosphere
  (in order to prevent degradation and HCl formation)
- 10+ years R&D in aluminum plating from ionic liquids
- Network with partners from industry and R&D
  (such as Fraunhofer ENAS)

2026 Outlook:

- ***Almight® One*** pilot system running (and open for demo inquiry)
- Introduction of compact semi-automatic ***lab system*** (~60cm × 180 cm) ***for R&D and scale-up***

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