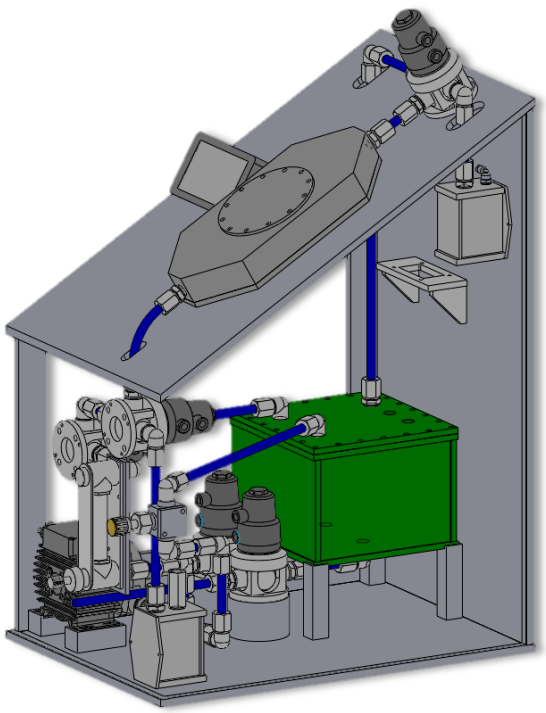
Safe Flow Cell (SFC)

Aluminum Plating & Porous Silicon

nb technologies
consulting engineers

To work with hazardous electrolytes (e. g. ionic liquids for aluminum or hydrofluoric acid for porous silicon), NBT has designed an electroplating cell, in which it is possible to work with less than five liters of electrolyte. This cell is hermetically sealed and the electrolyte is not exposed to the surrounding atmosphere. NBT offers the test cell with a wafer holder that allows either front or back side contacting.

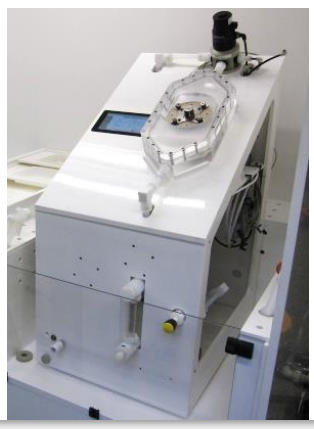


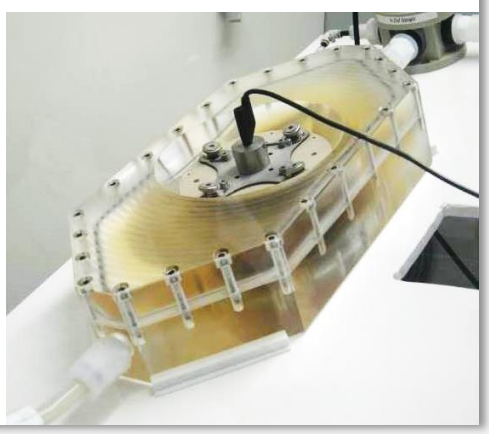
Supported by:

Federal Ministry
for Economic Affairs
and Climate Action

on the basis of a decision
by the German Bundestag

Technical Specifications:			
Typ	SFC 100	SFC 150	SFC 200
Wafer Size	100 mm	150 mm	200 mm
Dimensions	w 500 mm x d 700 mm x h 940 mm		
Tank volume	5 Liter		
User Interface	Touch Screen Process control: automated with 3 levels (operator, maintenance, service)		
Working methods	**dry in dry out** Light enhanced for illumination supported processes Edge exclusion 5 mm Power Supply up to 40 A Distance between wafer and electrode 35 mm Temperature range 10-40°C flow controllable up to 20 l/min HF up to 40% Electrode Platinum meshed electrode (Pt/Ir) or Platinum plate (Pt/Ir) or Si with boron doped diamond (BDD)		
External	operated in fume hood (mandatory) waste water connection 20mm DI water 4 bar N2 4 bar Power 50 Hz, 230 V /16 A		





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