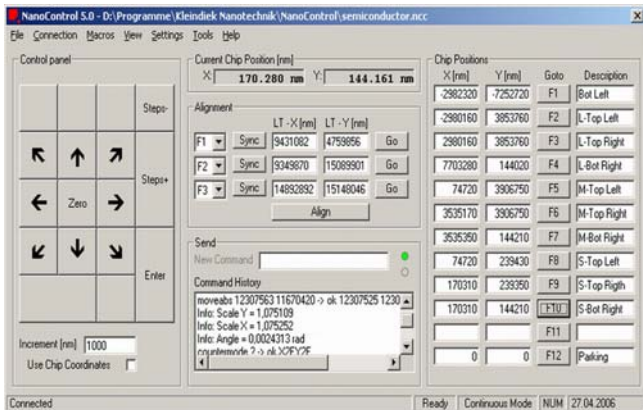
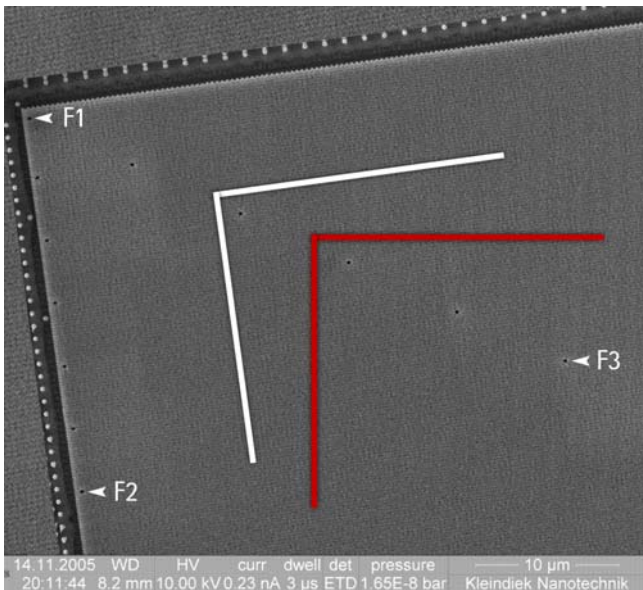


Three-point Alignment



3PA software showing three defined alignment co-ordinates and ten pre-saved waypoints on the chip

The 3PA software is an extension to the standard NanoControl software that is delivered with all of our products. When used in combination with a linear table fitted with positional encoders (e.g. LT12830), it allows movement of the axes of the table based on the co-ordinate system of the sample (e.g. a chip containing lines of transistors). Fast and precise navigation is thus possible, regardless of the orientation of the sample. The alignment of the two co-ordinate systems is as simple as defining three arbitrary points on the sample. The software will take over the rest.



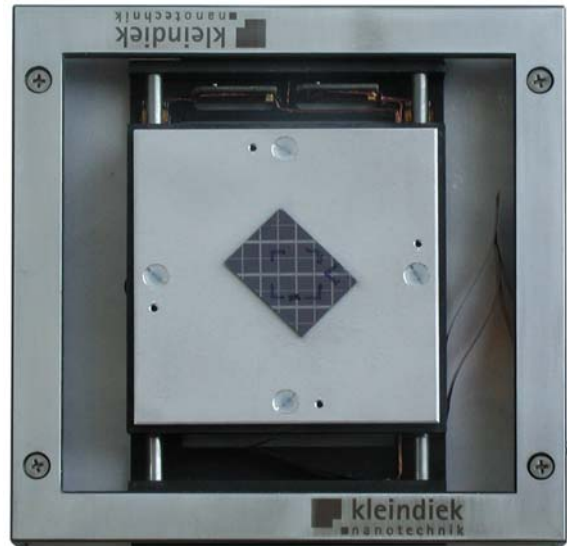
Definition of three points on the chip (F1, F2 and F3) allows the co-ordinate system (shown in white) to be aligned with the axes of the linear table (shown in red)

Applications

- Electrical probing (failure analysis)
- Cell counting

Features

- The 3PA software displays the current sample co-ordinate during navigation, allowing structures on the sample to be identified and localised.
- A simple macro language allows common tasks to be executed at high-speed or defined waypoints to be approached in a particular sequence over a set period of time.



LT12830 linear table with sample: the 3PA software will allow effortless alignment of the obvious offset between the two co-ordinate systems