

## Newsletter, October 2015

### Topics:

- 1. New Partner
- 2. Product-Offensive
- 3. Highest Precision
- 4. Termination of our Representation of Noliac A/S

### ➤ 1. Klaus-Dieter Müller – Welcome to the Team!

Dr.-Ing. Klaus-Dieter Müller has been appointed member of the executive board by September 1st. Klaus-Dieter Müller got his PhD in micro-systems technology at the KIT (Karlsruhe Institute of Technology) in 1998.

Mr. Müller successfully developed piezo-systems from the end of the 90s until 2008. From 2008 to 2015 he was worldwide responsible product-manager for optical components at a famous company in the field of solar-thermal power-plants. Now he's back in the piezo-world. The new PPx (see below) parallel-levers have been developed by Mr. Müller already. We are looking forward to him finishing the next product-lines soon.



### ➤ 2. New Products

#### MPO Multilayer Piezo-Stacks (150 V)

- Strain to 2 Per mille (30mm-Stack: 60 µm)
- Minimum dimensional tolerances
- Optimized straightness of motion
- Avoidance of micro-cracks and pillow-effect



#### PPx Parallel-Levers

- More compact dimensions
- Electro-eroded flexures
- Parallel-guidances
- Optional position sensors



### ➤ 3. Highest Precision in Cooperation with nPoint

nPoint is our partner, when it comes to the absolute highest precision. nanoFaktur develops the stages. Manufacturing, controllers, software and metrology come from nPoint. Resolutions of position at 5 ppm and linearities of 0.01% are standard. Multi-axes stages are built as parallel-kinematics. This means that the moving platform is being measured and controlled directly and simultaneously in all relevant degrees of freedom. Cross-talks are being compensated. The digital controllers allow for a self-characterization of the systems and a flexible optimization. There are arbitrary function-generators for each axis.



### ➤ 4. Termination of us representing Noliac A/S

The representation of the Danish Noliac A/S by us has ended by 31<sup>st</sup> of August this year. Since some time we have been developing and working on our own products. So that we are quite complete in the fields of multilayer and actuators. We are planning to offer monolayer piezo-products in the near future. We'll keep you updated.