

# Positioning Systems

## Customized Positioning Systems

The standardized positioning axes presented in this catalogue make it possible to handle many kinds of positioning tasks. For positioning tasks, that cannot be solved using standard axes, application engineers are available to work out an optimized solution for customers. The inquiry form at the end of this catalogue serves to help our application engineers make a preliminary design.

A sampling of customized solutions is shown here. In several examples, mechanics are not the only parts customized. For instance, with the planar motors, special software is developed in order to obtain optimal integration of the positioning system to the production process.

### 1.1 Examples

#### Economical Pick & Place and Inspection

XY gantry systems are economical for many applications. Gantry axes are assembled from standard components.

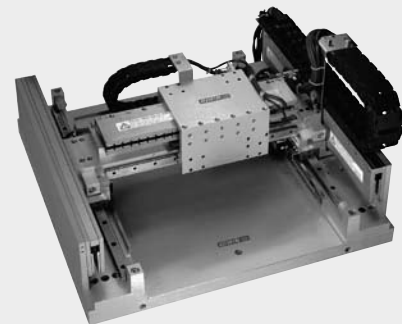
- Standard axes of the LMX1L series
- Repeatability  $\pm 2 \mu\text{m}$
- Delivery with base frame.



#### Microshapes and Macroshapes

Milling of microstructures with cutting tools and lasers are application areas in which gantry systems excel. They are also very economical to implement.

- Coreless motors LMC
- Repeatability  $\pm 2 \mu\text{m}$
- Technology proven through countless worldwide installations



#### Planar Motors

Servo-planar motors provide an excellent technological platform for inspection tasks. During inspection of circuit boards, optical sensors are integrated to completely monitor the printed conductive tracks and SMD components.

- Virtually no wear due to an air-cushion bearing
- Guaranteed levelness for the complete stroke path (up to 1000 mm x 1000 mm)
- Repeatability  $\pm 3 \mu\text{m}$

