



# Laser Systems GmbH

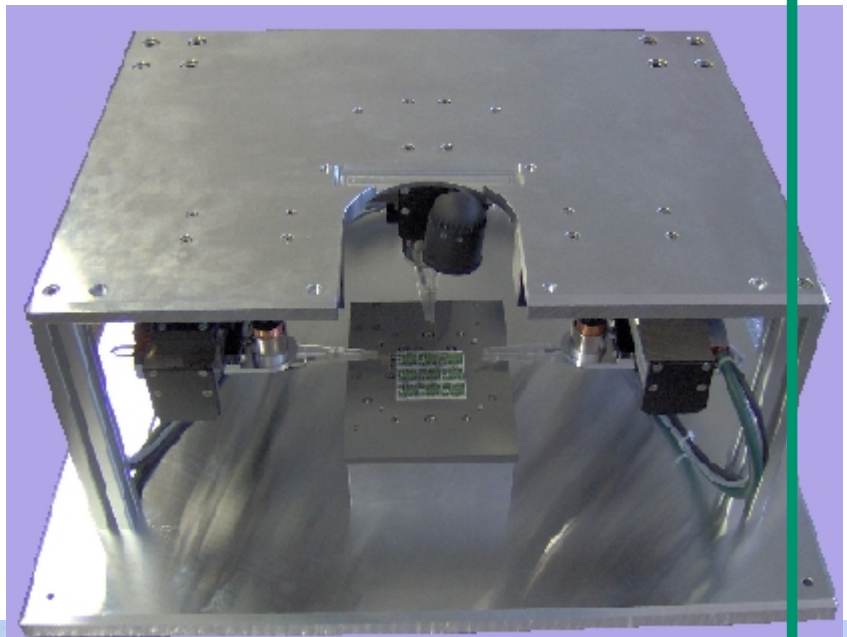
## Moving Probes

The **“Moving-Probes“** option rationalised your trim application. You trim faster, more economic and with best possible efficiency many for small batches.

### Flexible contact

For small batches and for prototyping it is often expensive to produced soldered probe cards. Therefore LS Laser Systems has developed the so called **“Moving- Probes“**, which can easily integrated into the different trim systems.

Three pins are programmable moved by small linear motors. To guarantee an exact positioning x/y-movement of the pins is controlled by glass gauge. The contact movement of the pins is realised by a stroke magnet, which lowers the pins of about 2 mm. To adjust the whole unit for different substrate thickness you can integrate a movable z-axes.



Each pin of the **“Moving-Probes“** can be defined as contact A, B or C. These guarantees you the highest possible flexibility for trims with **“active guarding“** for phi-networks. By the positioning resolution of 0.5 microns the **“Moving-Probes“** are suitable for ambitious contact applications with small test pads as well. In combination with a step&repeat table the size of 50 x 60 mm<sup>2</sup> enables you to trim large substrates also.

To optimise the movement of the **“Moving-Probes“** LS Laser Systems has developed a special **crash-free software**. Depending on the programmed or taught position of the test pads the software calculates the best path for each single pin. The movement will be optimised, that no crossover of the path (crash-free) is possible and highest safety is reached. This guarantees shortest paths and highest flexibility.

### Technical data

Resolution:	0,5 micron
Repeatability:	± 0,5 micron
Speed: max. 400 mm/s	
Acceleration:	10 m/s <sup>2</sup>
Max. size.:	60 x 60 mm <sup>2</sup>

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