

## Latest installation

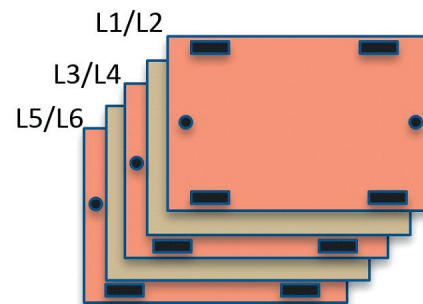
### Automatic registration of multilayer

We wrote about our new multilayer press from Bürkle in earlier newsletter. Manufacturing of 10-16 layer boards with small annular rings will require pinnless registration. This means that registration pins in the press tools are replaced with optical registration and induction welding.

At the end of 2020 we installed the registration equipment from US based DIS Technology.

The registration equipment runs a cycle of automatic innerlayer feeding and registration adjustment of each layer for optimized alignment. Fiducial marks are identified by cameras. When all innerlayers are positioned next cycle starts, where inductive welding makes a package stack of all layers.

This method can provide a registration accuracy down to +/-17 µm !



## Rebuilding for new investments

### One of our production areas was recently rebuilt to make room for new technology

During the spring 2021 we will install a new chemical process line. The new line is required for boards with small vias and high aspect ratio. The new process will also have less impact on the environment.

The 18 meter long production line require new floor coating, waste water installation, water and air supply, electric connections and ventilation.

Keep your self posted about our continued investments in next newsletter from MMAB!

More information about our products and technical support can be found at [www.mmabgroup.com](http://www.mmabgroup.com)

Malmö Mönsterkort AB, Sweden +46 (0)40 64 24 600, [sales@mmabgroup.com](mailto:sales@mmabgroup.com)  
 MMAB Group, Hungary +36 (0)30 658 22 60, [sales.hungary@mmabgroup.com](mailto:sales.hungary@mmabgroup.com)  
 MMAB Group, Czech Republic +420 601 151 376, [sales.czech@mmabgroup.com](mailto:sales.czech@mmabgroup.com)  
 MMAB Group, Finland +358 (0)44 32 04 588, [sales.finland@mmabgroup.com](mailto:sales.finland@mmabgroup.com)