

Innovative laser depaneling meets unique speedLAS® technology

Stand alone laser SAL-1300

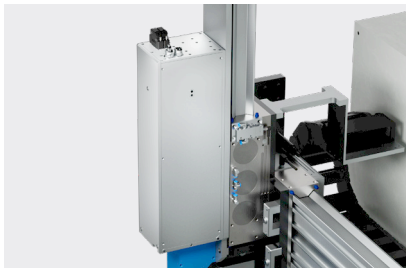
Hand in hand for tomorrow



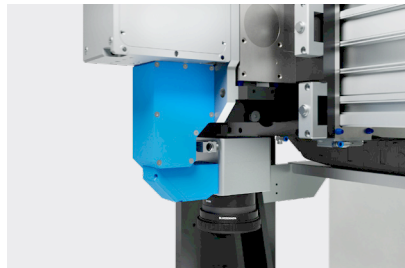
Independent. Precise. Fast. Stand Alone Laser SAL-1300



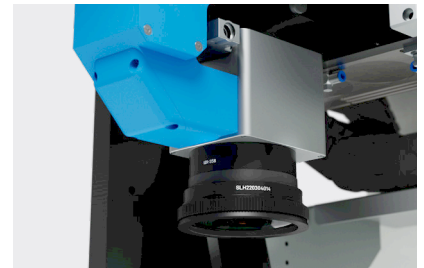
The compact stand alone machine with speedLAS® technology allows precise high-speed laser machining thanks to the innovative interplay between SCHUNK linear axis technology and laser scanner control. The laser shortens process times and ensures an optimal cutting quality at the same time. Lasering with the appropriate source and the possibility to combine laser machining with the milling technology on a single machine, creates a high degree of flexibility.



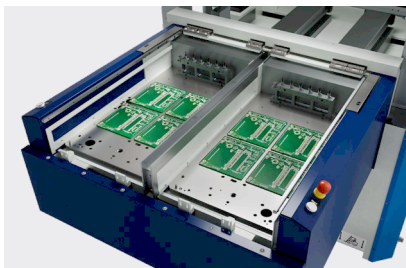
1 Laser solution with a broad source portfolio



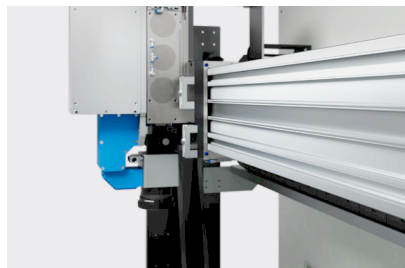
2 speedLAS® technology



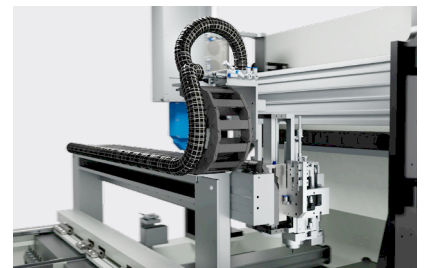
3 Different scanfields possible



4 Compatibility with previous SCHUNK workpiece holders



5 High-quality SCHUNK linear axis technology



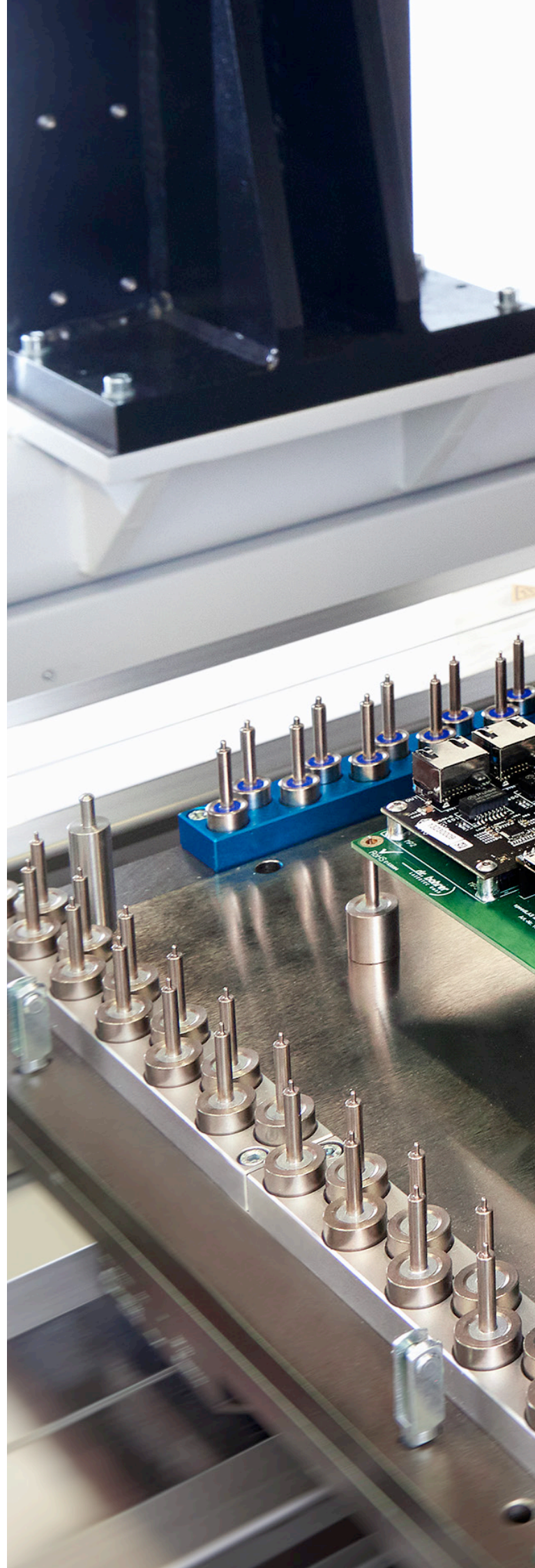
6 Milling gantry system optional, also retrofittable

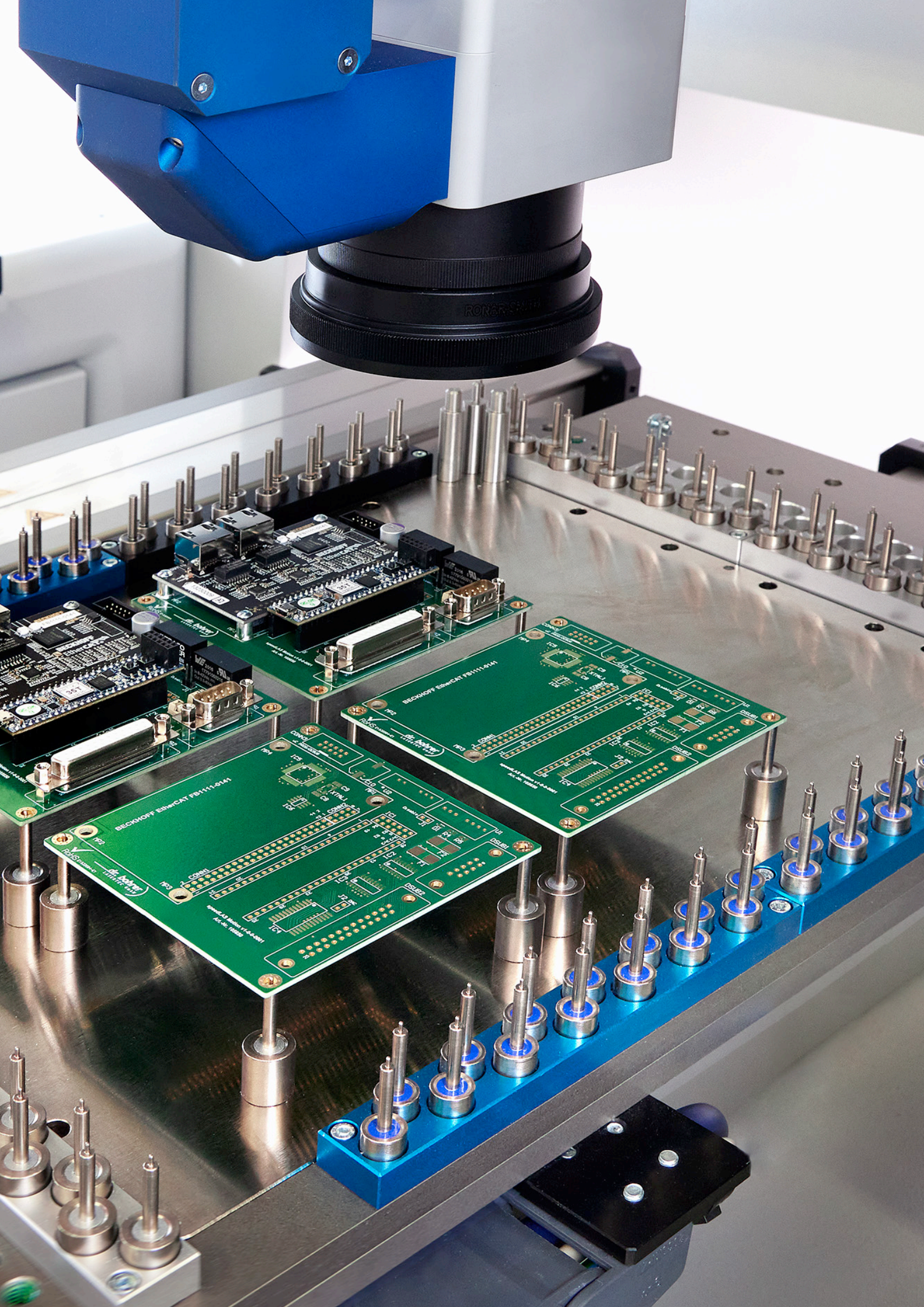


Innovative speedLAS® technology for precise and efficient depaneling

In the speedLAS® technology, the laser is controlled by a special scanner in such a way that its movements overlap with those of the axes. This innovative method ensures that the laser is always aligned at a perpendicular angle to the workpiece, resulting in precise and straight cuts. The use of this technology delivers an aesthetically pleasing cutting quality but also leads to an up to 80% faster processing speed compared to previous laser applications. In addition, the energy input in the edge area is optimized which further increases the efficiency and quality of the cutting process.

- + Up to 80% faster laser cutting processes than traditional applications
- + Cutting result up to complete freedom from carbonization
- + Optimized energy contribution





Lasering with different wavelengths for various materials

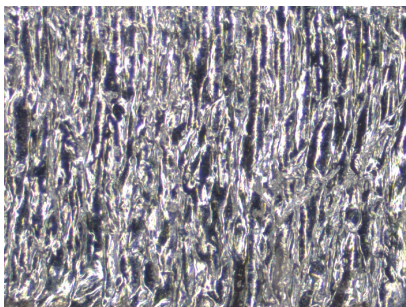


In laser processing, the focus is on adapting the wavelength to the material to be processed. The SAL facilitates the use of arbitrary wavelengths to select the best laser source for each material. The flexible scanner size allows precise machining in various applications.

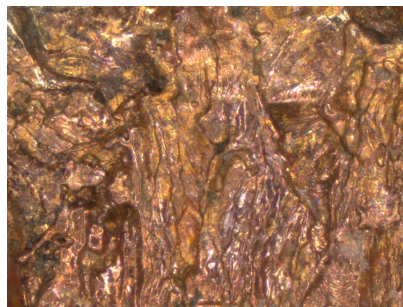
We rely on comprehensive process support, which is carried out in close collaboration with Dr. Bohrer Lasertec GmbH. On the basis of a thorough and precise material analysis, the best possible laser for your requirements is selected.

The material is separated by means of different laser sources, then analyzed using a suitable microscope (for example scanning electron microscope), and assessed under optimal conditions. Different degrees of carbonization and quality levels for separation can be offered.

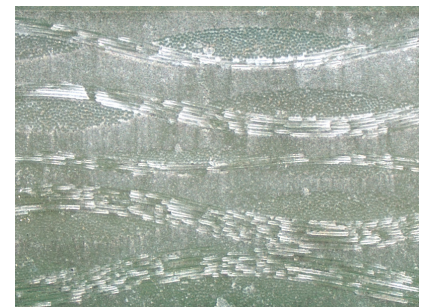
Section analysis of different materials under the microscope



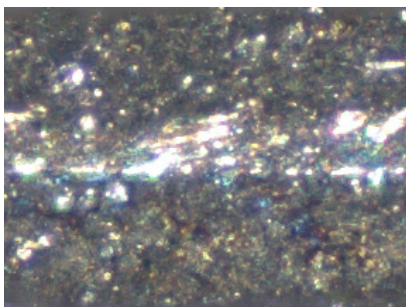
Aluminum (1 mm*)



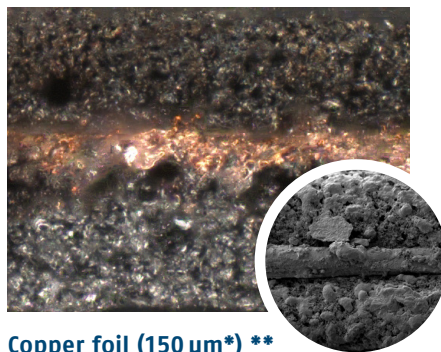
Copper (1 mm*)



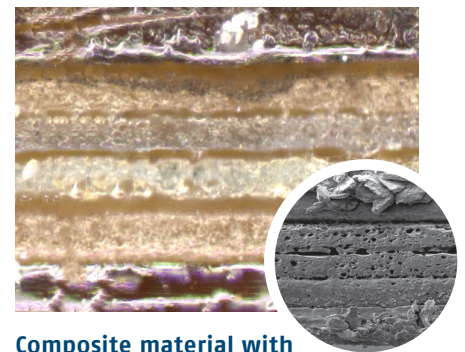
FR4 (1,6 mm*)



Aluminum foil (100 μm*)



Copper foil (150 μm*) **



Composite material with cellulose nitrate layers (150 μm*) **

*Material thickness

**Close-up image with the scanning electron microscope



Interested?

If you require further information on the SAL-1300 and its technologies, or if you have any questions regarding SCHUNK depaneling machines or depanelization, feel free to contact us.

Tel.: +1 919-572-2795
info@us.schunk.com



SCHUNK Electronic Solutions GmbH

Am Tannwald 17
D-78112 St. Georgen
Tel. +49-7725-9166-0
schunk.com

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