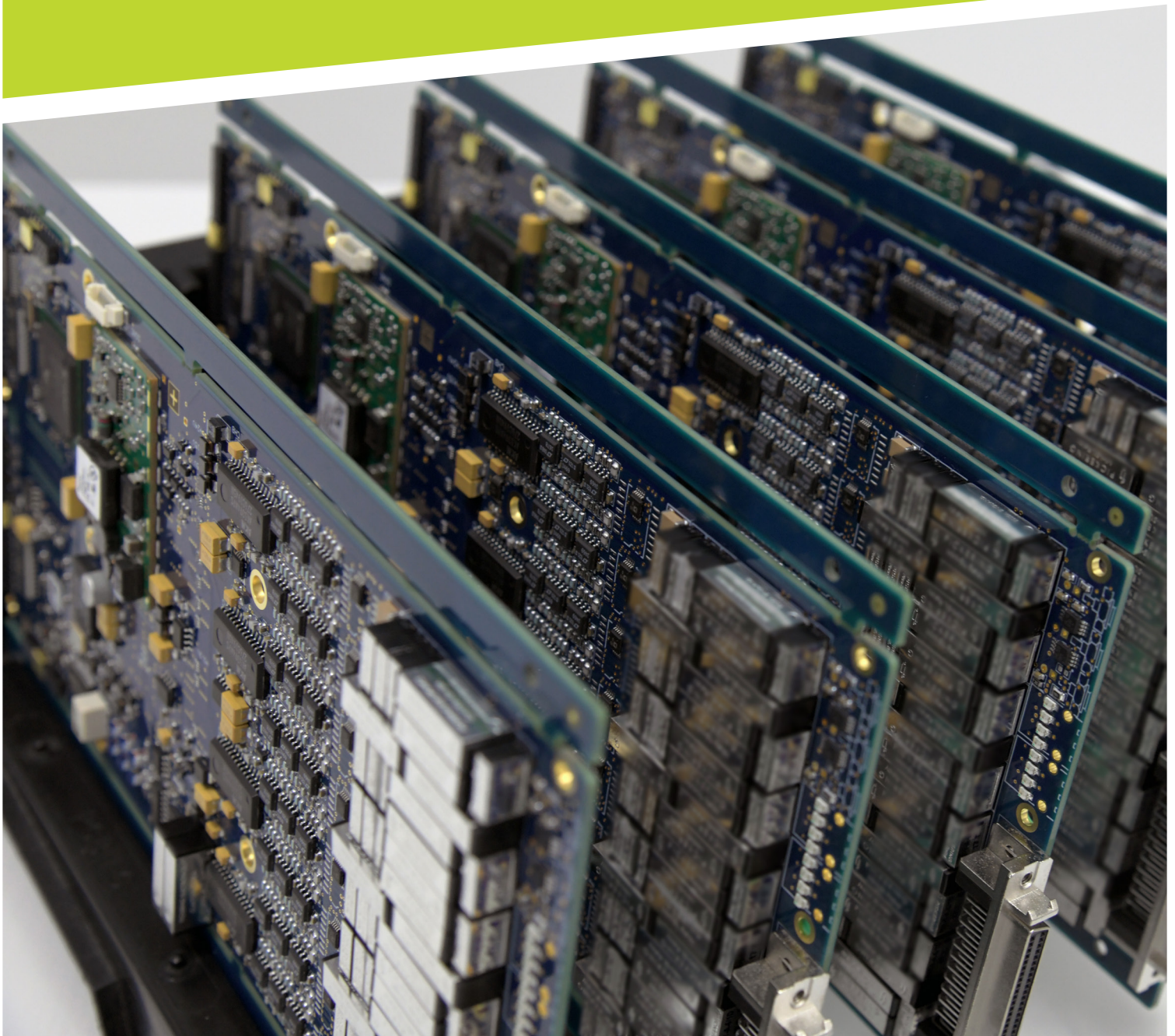


ENGINEERING ANSWERS



Electronic Assemblies from ATLAS EMS. Intelligent Solutions for your Products.



OUR SERVICE SPECTRUM.

Flexible production capacities for large and small quantities. Reliable quality, sophisticated, high-performance technology and the networked operation of all manufacturing sections are a guarantee for the reliability of your products.

ATLAS EMS gives you the complete spectrum of electronic assembly production. Material procurement, SMD pick-and-place and reflow soldering, THT insertion / manual soldering, functional tests and ICT as well as the protective coating of assemblies. All processes can be carried out lead-free as well as lead-containing.

Our portfolio also includes wave and selective soldering as well as soldering in a vapour phase.

3D-SPI, 3D-AOI and X-ray inspections round off the quality assurance of our processes and thus assure the optimum quality of your assemblies.

To ensure that your products function flawlessly even under the most extreme environmental conditions, we protect them by coating or casting in our departments especially accredited for underwater applications.

Certified according to ISO 9001:2015 and EN 9100:2018

SMD placement:

- ◆ Solder paste printing with stencil
- ◆ For small quantities or assemblies with special requirements: solder application with a high-performance solder paste dispenser
- ◆ Precision camera systems for component measurement and position correction
- ◆ The optimum soldering process for every component, e.g. reflow for "standard" applications or vapour phase for components with complex thermal capacity profiles

Assembly marking:

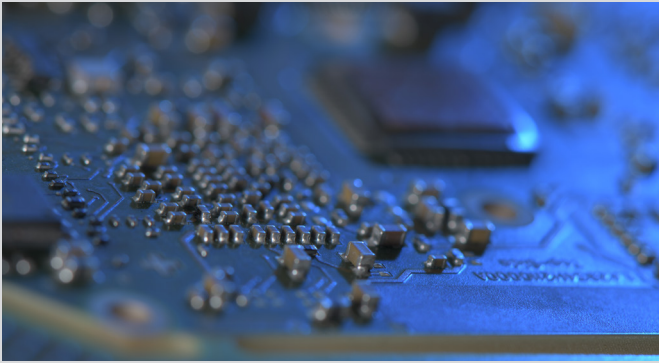
- ◆ Laser marking of metal signs, foil labels and front panels incl. logos and consecutive serial numbers, especially bar code and Data Matrix

Functional test:

- ◆ Automated and semi-automated functional testing
- ◆ Test system development according to customer requirements
- ◆ Freely expandable test system to meet customer requirements
- ◆ Obsolescence management --> maintaining testability over 40 years
- ◆ Own software environment, adaptable to customer requirements --> optimized for troubleshooting
- ◆ Extensive experience with complex tests and verifications --> also for the system testing
- ◆ Competent advice on testing strategy and on the optimization of existing testing processes

Other technologies:

- ◆ THT (through-hole technology) placement
- ◆ Double wave soldering unit 400 mm wide with nitrogen tunnel
- ◆ Partial soldering
- ◆ Pressing in complex connector strips
- ◆ Mounting of power supply units
- ◆ Assembly coating
- ◆ Programming of electronic components
- ◆ Cleaning of assemblies according to MIL standard
- ◆ 3D SPI testing, 3D AOI inspection for optimum process monitoring
- ◆ Solder joint inspection, i.a. with X-ray systems
- ◆ Flying probe test without needle bed adapter
- ◆ Standard in-circuit test with up to 1152 node points, up to 50 MHz
- ◆ Combined in-circuit/functional test via needle bed adapter or connector strip



Our qualified and IPC-certified employees are available specifically for the production of your most complex assemblies. Only the flawless mastery of the production and testing processes guarantees the quality for which we have been known for over 100 years.

Even the most difficult designs can be realized with our modern facilities.

Our special machines range from the automated underfill dispenser to the freely programmable laser depaneling machine.

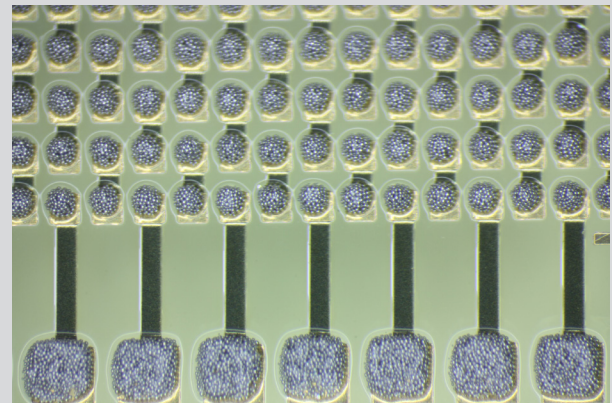
We manufacture your products from a quantity of 1 up to large-scale production. Our delivery spectrum ranges from double-sided PCBs with a low component density to large-format 24-layer multilayers mounted on both sides, as well as from flex and rigid-flex PCBs to ultra-fine-structure PCBs on glass substrates. Fine-pitch SMDs with a lead pitch of 0.4 mm are just as much a part of our spectrum as BGAs with a lead pitch of 0.22 mm.

To ensure its long-term function, we can put your product through its paces in our accredited environmental simulation laboratory, under real-world conditions to suit the intended purpose.



Laser depaneling machine

YOUR
BENEFITS.



Solder paste printing with a pin pitch of 220 μm

CONTACT

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Engineering and Manufacturing Solutions