



Seamark ZM Technology Group (H.K,) CO.,Ltd

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SUN &LYNN Circuits X-ray inspection equipment

Application on PCB board

In 2020, SUN &LYNN Circuits Co., Ltd was established in Shenzhen, Guangdong and Ganzhou, Jiangxi. The production base is used for the production of PCB circuit boards. The total number of employees is 3,000.

Ranked 15th among CPCA's top 100 domestically-funded circuit board companies, it has developed into a Chinese PCB manufacturing company, providing PCB, HDI, rigid-flex board, FPC and FPCBA's one-stop professional service.

Quality control has always been a problem for enterprises. During PCBA assembly and processing, short circuits, voids, weak soldering, and poor contact will occur. SUN &LYNN Circuits Co., Ltd introduced X-ray to detect PCB layers and layers Alignment problem (**multilayer printed circuit board**).

The advantages of using Seamark ZM x-ray inspection equipment are mainly reflected in:



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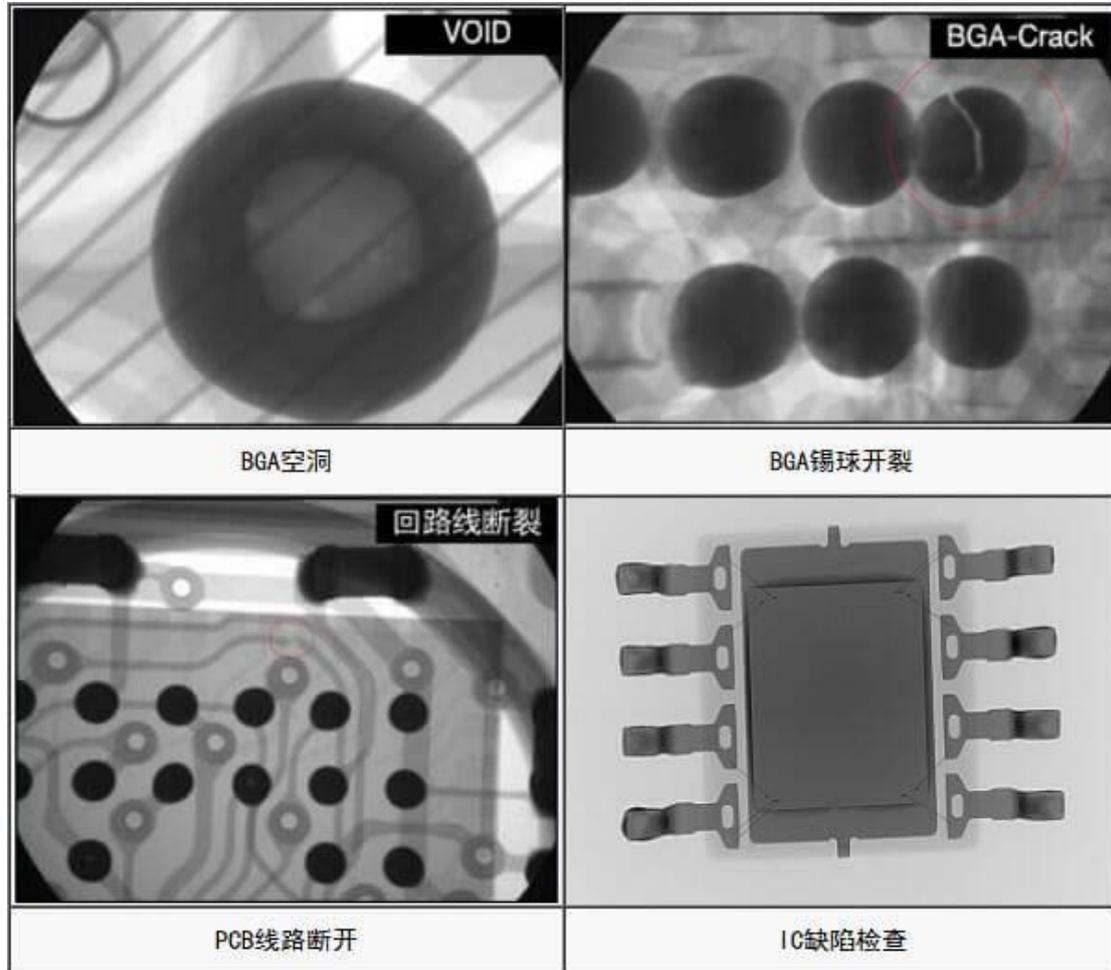
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(1) The detection coverage of process defects is as high as 97%. Defects that can be inspected include: false soldering, bridge connection, monument, insufficient solder, blowholes, missing components, etc.

(2) Higher test coverage. Penetrating the sample, imaging detection;

(3) Test preparation time is greatly reduced.

(4) Defects that cannot be reliably detected by other testing methods can be observed, such as: false welding, air holes, and poor molding.

(5) Double-sided board and multi-layer board need to be checked (with layering function).



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(6) Provide relevant measurement information to evaluate the production process. Such as the thickness of the solder paste, the amount of solder under the solder joint, etc.

Family of [Industrial X-ray inspection machine & BGA rework station](#)

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[TSI Mexico use Seamark x ray machine](#)

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x-ray 检测设备在 PCB 板的应用

近几年 x-ray 检测仪发展迅速，已从过去的 2D 检测发展到 3D 检测，4D 检测甚至是 5D 检测，具有 SPC 统计控制功能，能够与装配设备相连，实现实时监控装配质量。采用卓茂 x-ray 检测设备的优势主要体现在：

- (1) 工艺缺陷的检测覆盖率高达 97%，可检查的缺陷包括：虚焊、桥连、碑立、焊料不足、气孔、器件漏装等等；
- (2) 较高的测试覆盖度。穿透样品内部，成像检测；
- (3) 测试的准备时间大大缩短。



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(4)能观察到其他测试手段无法可靠探测到的缺陷，比如：虚焊、空气孔和成型不良等。

(5)对双面板和多层板只需一次检查（带分层功能）。

(6)提供相关测量信息，用来对生产工艺过程进行评估。如焊膏厚度、焊点下的焊锡量等。

2020年 SUN &LYNN Circuits Co., Ltd 成立，工厂设在广东深圳和江西赣州，生产基地用于对 PCB 线路板的生产，员工总人数为 3000 人。

在 CPCA 内资百强线路板企业中排名 15 位，已发展为中国 PCB 制造企业，为通讯，新能源，安防，工控，医疗，汽车等领域的全球客户提供 PCB, HDI, 软硬结合板，FPC 和 FPCBA 的一站式专业服务。产品质量管控一直是企业的难题，PCBA 组装加工过程中，会发现焊接不牢，接触不良的情况，SUN &LYNN Circuits Co., Ltd 通过引进 X-ray 来检测 PCB 板层与层之间是否对齐。