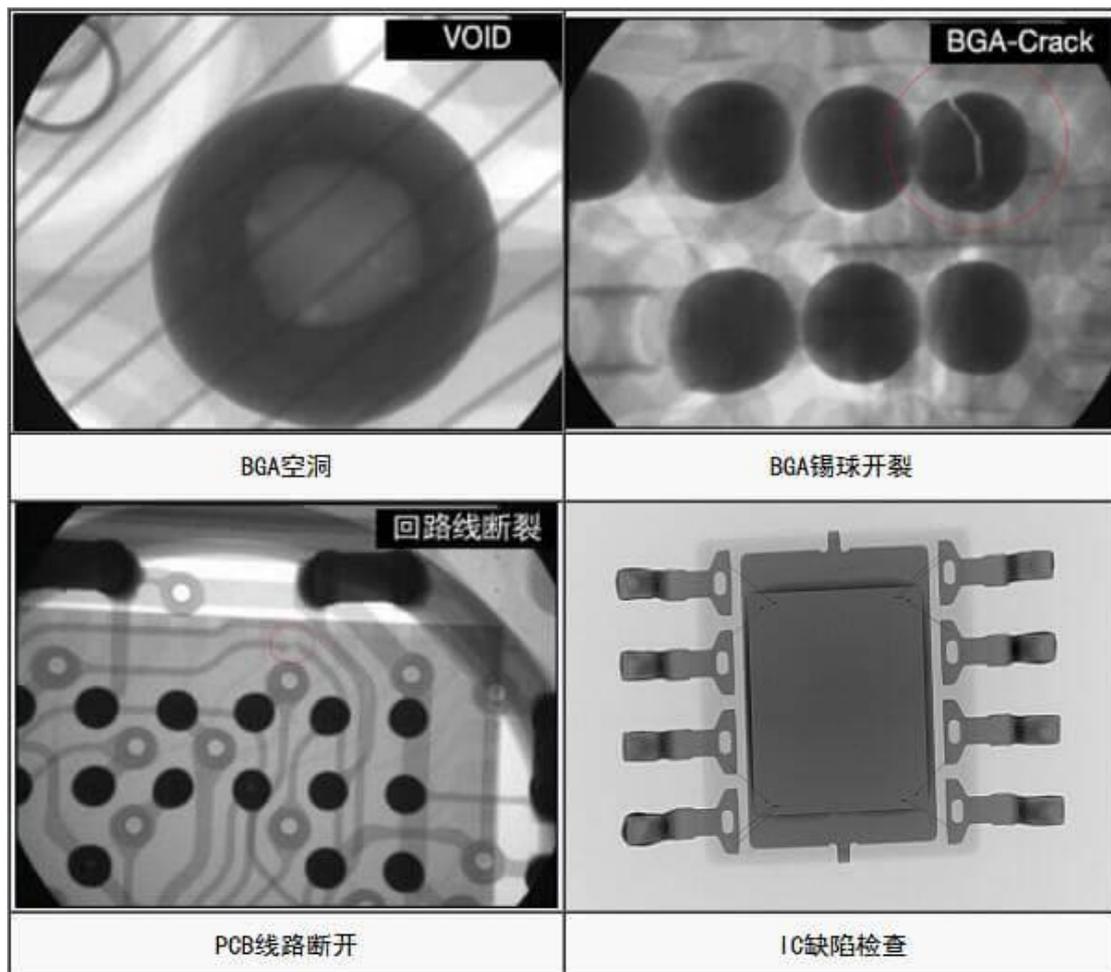




X-ray inspection Application on PCB board

In recent years, the x-ray detector has developed rapidly. It has developed from 2D inspection to 3D inspection, 4D inspection and even 5D inspection. It has SPC statistical control function and can be connected to assembly equipment, to realize real-time monitoring of assembly quality. The advantages of using Seamark ZM x-ray inspection equipment are mainly reflected in:



(1) The detection coverage of process defects is as high as 97%. Defects



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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).

(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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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。

(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。