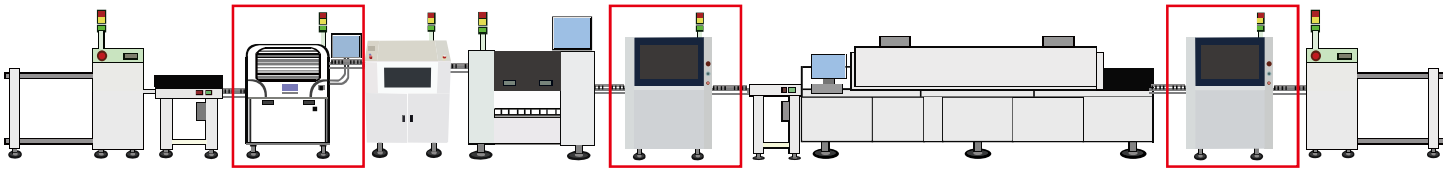


全自动钢网检查机SVⅡ-K100

Automatic Steel Mesh Inspection Machine Sv Ⅱ -k100

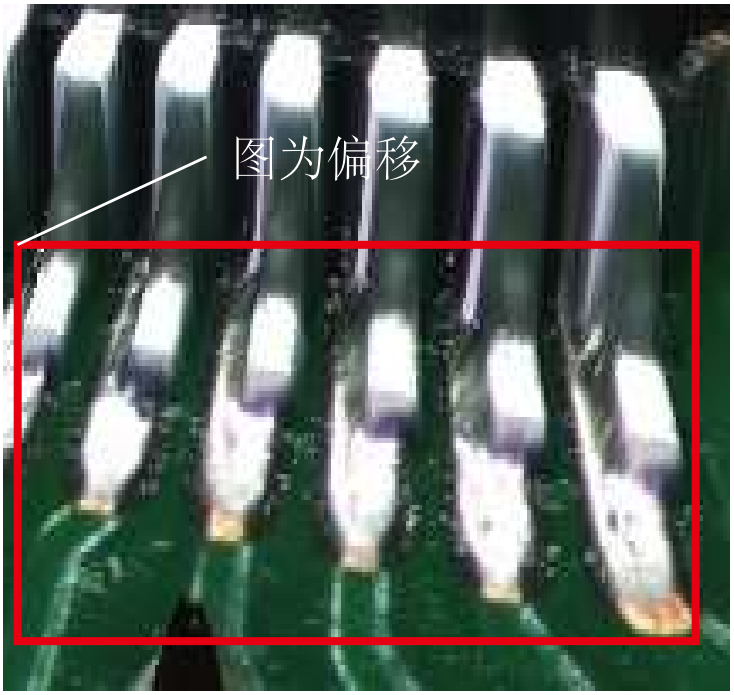
工艺现状

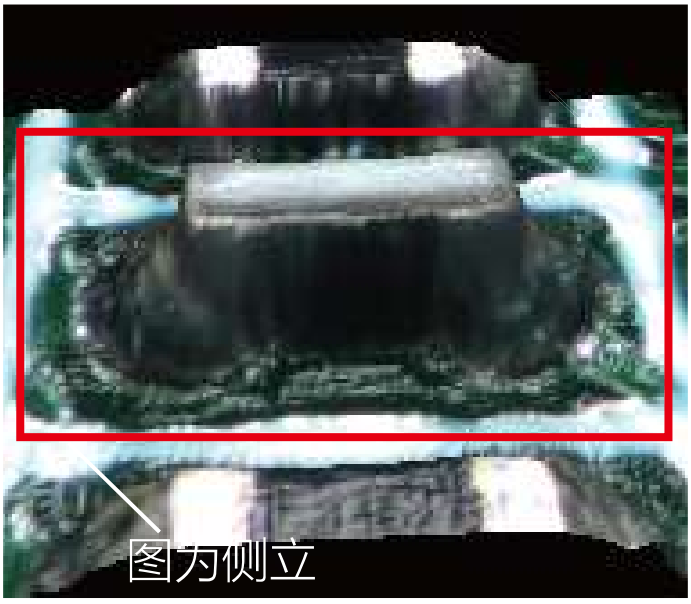


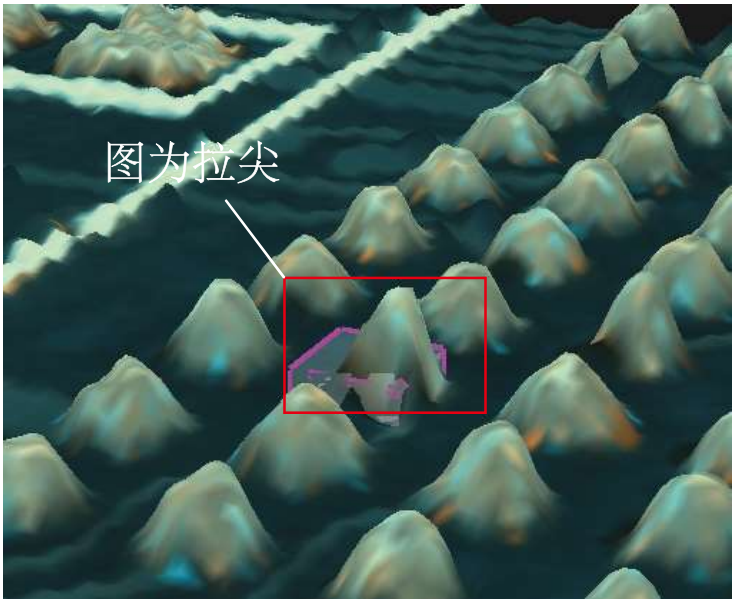
- 目前工艺现状出现的问题多数集中在锡膏的印刷

SPI/AOI检测不良图





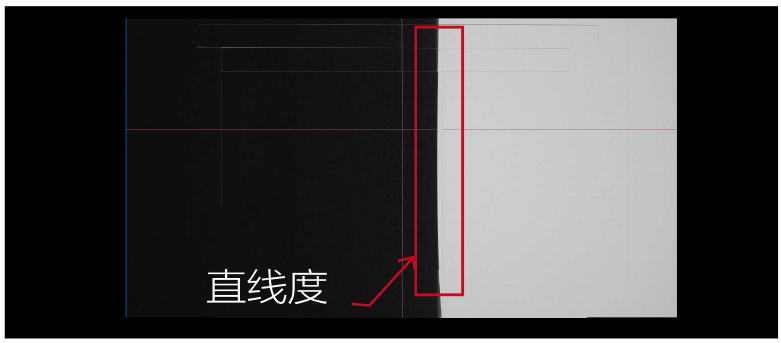


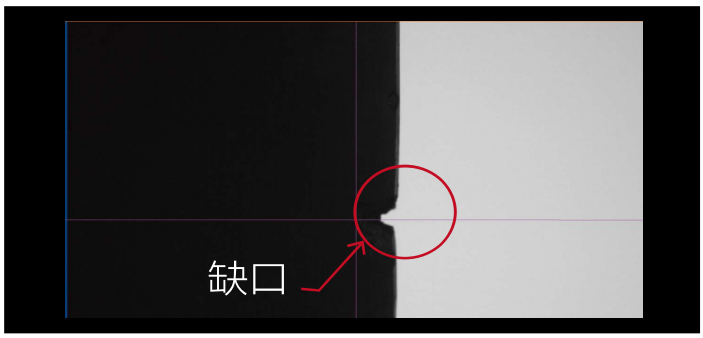


检测不良的原因

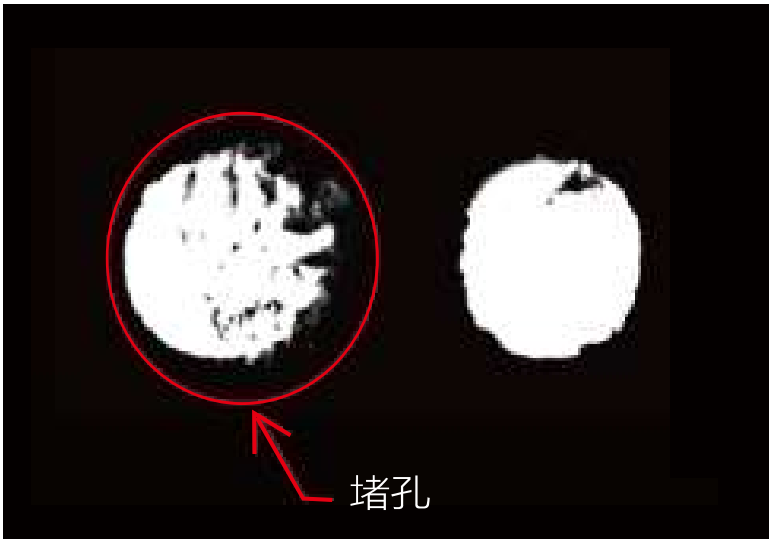
- 钢网存在问题
- PCB存在问题
- 刮刀存在问题

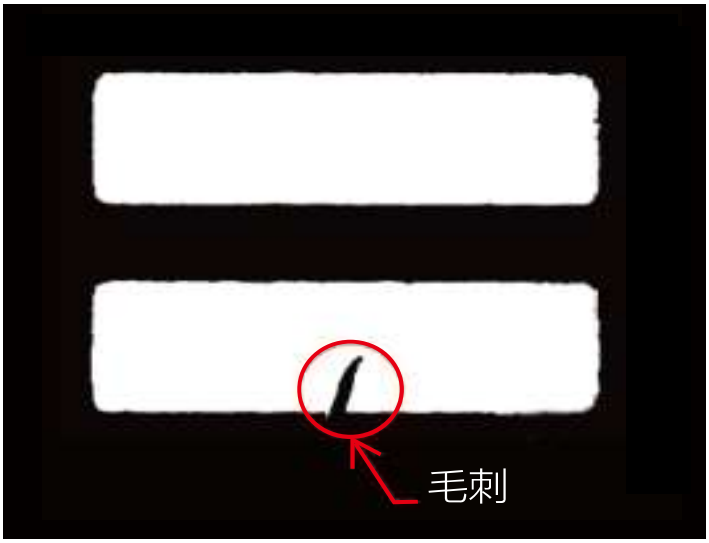
刮刀存在的问题点



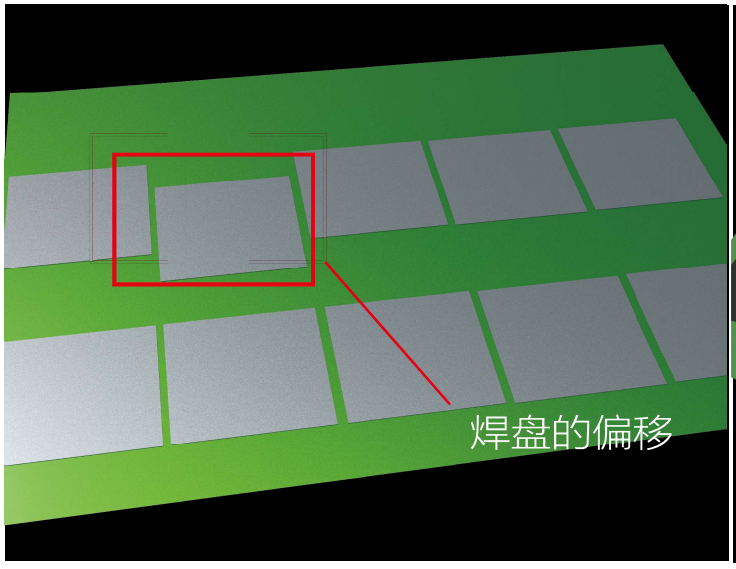


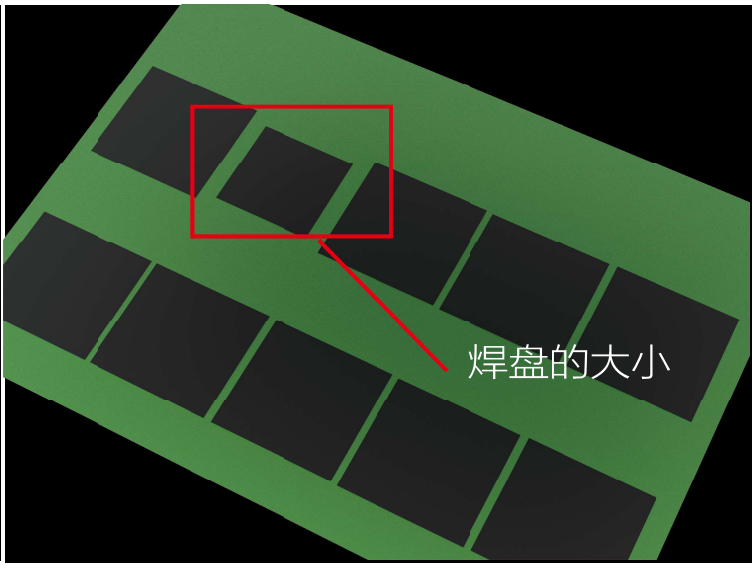
钢网存在的问题点





PCB存在的问题点





解决方案

全自动钢网检查机 (SVII-K100)



设备功能

- 精度高
- 速度快
- 代替人工目检

1.钢网来料及清洗后的检测

2.对钢网使用多久后的管控

3.钢网厚度的检测

4.PCB焊盘的检测

5.钢网开孔设计的优化

6.钢网的使用寿命

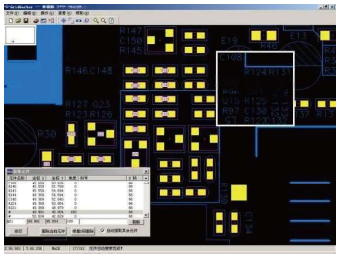
7.刮刀治具的检测

8.钢网供应商的筛选

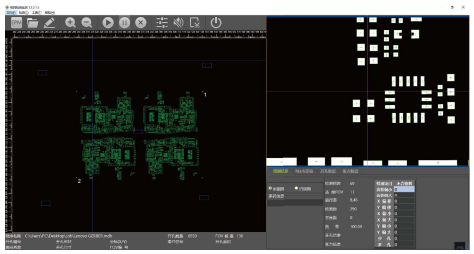
简单的操作流程



推进钢网

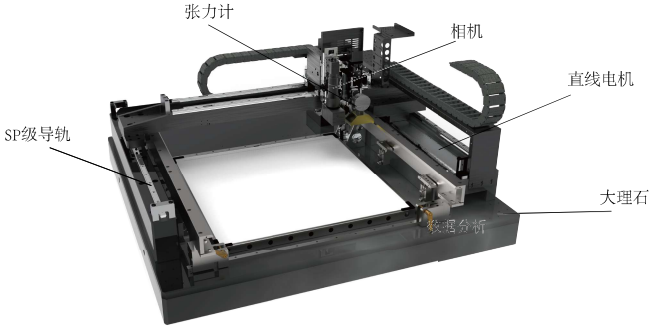


导进Gerber文件编程



进行钢网检测

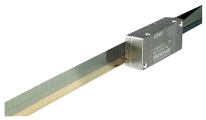
产品结构



精度把控的辅助性工具



二次元



光栅尺



千分表



干涉仪

技术参数
Technical Parameters

产品型号 Product Model	SVII-K100	
检测用途 (Application)	钢网来料检测或清洗后检测 (Stencil incoming inspection or inspection after cleaningl)	
测量项目 (Inspection items)	开孔面积、位置、偏移、尺寸、异物、毛刺、堵孔、多孔、少孔、张力、宽厚比、面积比、孔间距、模拟下锡量 (aperture area, position, shift, size, foreign body, glitch, hole blocking, multi hole, miss hole, tension meter, width-to-thickness ratio, area ratio, pitch of holes, simulating the amount of solder paste)	
相机 (Camera)	标配(Standard): carmera 500万 (5M)	选配(Options):carmera 1200万 (12M)
光学分辨率 (Optical resolution)	6.4μm	4.6μm
每FOV时间 (Inspection time per FOV)	500万：0.5S/FOV	1200万：0.7S/FOV
最大测量开孔尺寸 (Max. size for apertures)	14.6mm×10.4mm	16.6mm×12mm
最小测量开孔尺寸 (Min. size for apertures)	60μm	40μm
最小测量开孔间距 (Min. distance between apertures)	80μm	60μm
FOV	16.6mm×12.4mm	18.6mm×14mm
分辨率（亚像素） (resolving power Subpixel)	0. 4μm	0.3μm
尺寸重复精度 (Dimensional repeatability)	1个像素 (Pixels)	
运控精度(Motion control accuracy)	重复精度(Repeatability)：±2μm 定位精度(Location)：±3μm	
开孔面积GRR(GRR of aperture area)	Gage R&R<5%	
检测开孔数 (Number of test holes)	≤40万 (≤400 thousands)	
镜头 (camera lens)	双远心镜头 (Double telecentric lens)	
光源 (lighting)	顶部：红色同轴光； 底部：定制白色LED光源 (Top: Red coaxial light; Bottom: custom white LED light source)	
张力计校准方式 (Calibration method of tensiometer)	自动校准 (Automatic calibration)	
网框尺寸 (Stencil size)	(736mm×800mm) Max (200mm×200mm) Min	
检测范围 (Inspection area)	500×550mm	
Gerber File	RS-274X format (Gerber data teaching)	
SPC	Histogram,Xbar-R Chart,Xbar-s Chart,Cp&Cpk, Daily/Weekly/Monthly Report	
远程维护 (Remote maintenance)	TeamViewer software /Anydesk or Sunlogin software	
离线编程 (Offline programming)	离线编程查看 (Offline programming checking)	
计算机系统 (Computer system)	Windows 10 专业版64位 (Windows10 Professional Edition 64 bit)	
计算机 (Computer)	研华工控机 (Advantech Industrial personal computer)	
电源 (Power requirement)	220V,50/60HZ,功率(Power):2kW	
设备尺寸 (Equipment size)	1130mm(L)×1215mm(W)×1500mm(H)不含三色灯 (Does not contain three-color light)	
气源 (Air supply)	0.2Mpa-0.6Mpa	
设备重量 (Equipment weight)	900KG	
选配项 (Options)	钢网信息管理系统 (SIMS) (Stencil information management system)	
	定制开发MES模板 (Customized development of MES template)	
	刮刀直线度检测 (Squeegee parellenlism test)	
	Gerber文件设计与比对 (Gerber files design and contrast)	
	PCB焊盘检测 (PCB pad inspection)	
	钢网厚度检测（thickness inspection)	

深圳市晟歌科技有限公司
Shenzhen Shengge Technology Company Limited
地址:深圳市宝安区新安街道布心社区74区怡园路5175-1号润丰源C栋310
Add:310, Building C, Runfengyuan, No. 5175-1, Yiyuan Road, Buxin Community, Xin 'an Street, Bao 'an District, Shenzhen
Tel: +86 755 27307940
E-mail: xl@shengge-keji.com

