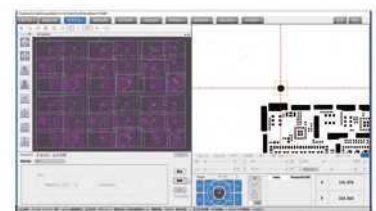
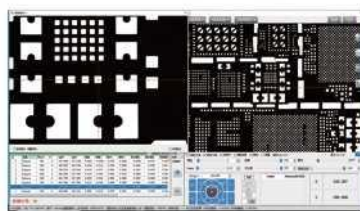
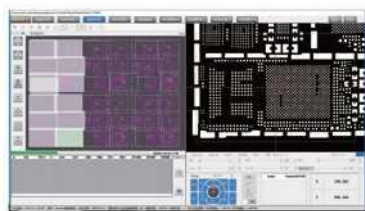


SMT钢网检测设备

SMT Stencil Inspection Equipment

Model No.E700



智能检测面积、位置、异物、是否有孔、张力
钢网通用性强，具备追溯特性，报表自动生成

Intelligent inspection item: area, location, foreign body, hole, tension

Steel mesh with strong versatility and traceability, automatic report generation

StencilCheck E700 SMT Stencil Inspection Equipment

随着科技的不断进步，产品的精细化提升，贴装零件越来越小，因此对SMT工艺的挑战也越来越严峻，钢网检查机由此诞生。钢网检查机主要用于对钢网的开孔尺寸、面积、偏移、异物、毛刺、堵孔、多孔、少孔、张力进行检测。通过检测可以有效的解决来料不良及清洗不良，完善清洗工艺，从源头上解决多锡、少锡、连焊等印刷问题。

德中钢网检测设备StencilCheck E700,更具性价比，是钢网检测设备的标准机型，拥有精度高、可逆性好、效率高等特点。StencilCheck E700还可通过增加选配项的方式，添加钢网张力检测功能和刮刀检查模块功能，如有更高精度、速度要求也可考虑更高版本设备，德中的钢网检测设备，既有钢网切割机的精度，又有专业软件功能和易用性，软硬件相互匹配，为客户提供最好的操作体验。

With the continuous progress of science and technology, the refinement of products, mounting parts are becoming smaller and smaller, so the challenge to SMT process is becoming more and more severe, steel mesh inspection machine was born. Steel mesh inspection machine is mainly used for the steel mesh hole size, area, offset, foreign body, burr, hole blocking, porous, less hole, tension detection. Through testing can effectively solve the problem of poor incoming materials and poor cleaning, improve the cleaning process, from the source to solve excess solder, insufficient solder, short circuit problems.

DCT steel mesh inspection equipment StencilCheck E700, more cost-effective, is the standard model of steel mesh inspection equipment, with precision, good reversibility, high efficiency. StencilCheck E700 can also increase the function of steel mesh tension detection and the function of scraper inspection module by increasing optional items. If higher precision and speed are required, higher version of equipment can also be considered. DCT steel mesh detection equipment not only has the precision of steel mesh cutting machine, but also has professional software function and ease of use. To provide customers with the best operating experience.



钢网开孔优化
从工艺上检验钢网
开孔正确性，并对
它进行优化

*Optimization of
steel mesh
opening
Check the
accuracy of steel
mesh opening
and optimize it
from the process*



钢网来料验证 检查
钢网上所有开 孔的位
置、尺寸面 积数量异
物、张力 等，确保来
料正确

*Steel mesh
incoming material
verification Check
the position of all
openings in the
steel mesh ,
dimension surface
volume, number of
foreign matter,
tension, etc., to
ensure that the
incoming material
is correct*



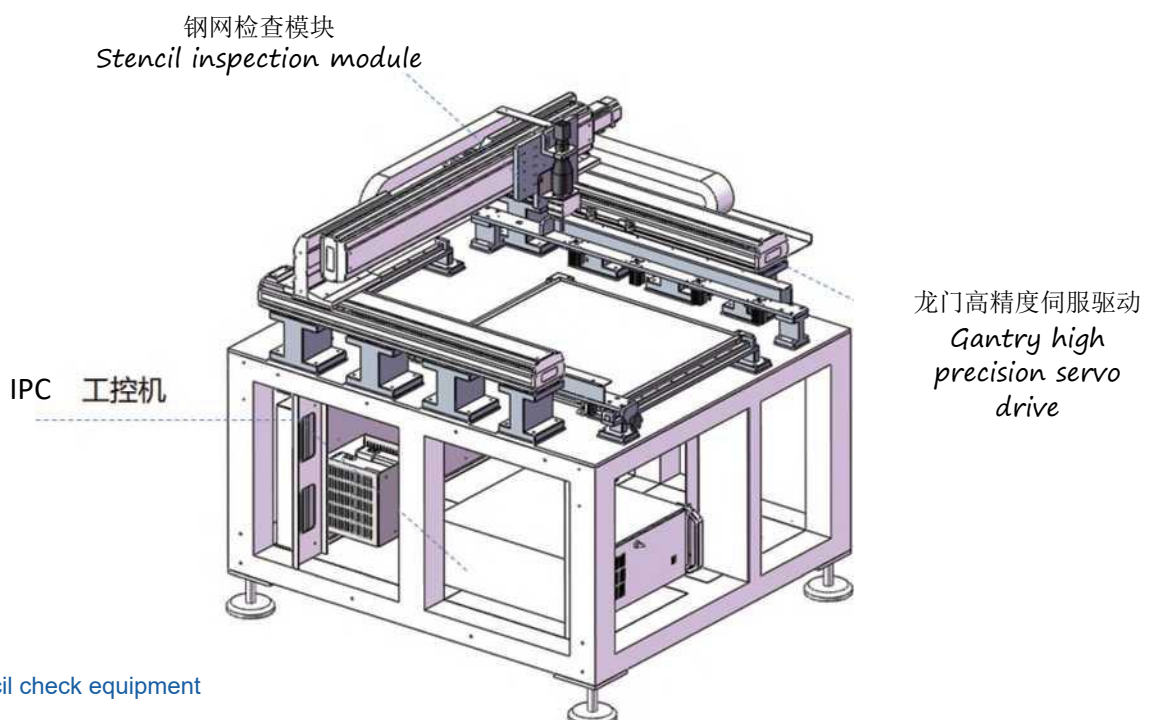
钢网使用管控 对使用
中的钢网进 行检测和
监控，随 时发现记录
反馈所 有问题，确保
生产 线上的钢网符合
品 质要求

*Check and monitor
the steel mesh in
use, find and
record the feedback
problems, to ensure
that the steel mesh
on the production
line meets the
q u a l i t y
requirements*



记录和反馈
记录所有的检测数 据和
图像，生成报 表，统计
钢网精度 趋势，实时上
传管 理系统，及时发现
和控制品质问题

*Record and feedback
Record all the
inspection data and
images, generate the
report form, count
the accuracy trend of
steel mesh, upload the
management system
in real time, discover
and control quality
problems in time*



SMT stencil check equipment

全面改善钢网品质:

替代人工检测，建立钢网管控标准，有效减少人工成本，大幅提高产品品质。可以快速解决开钢网及钢网清洗问题，改善清洗工艺，并从源头上解决多锡、少锡，连旱等印刷问题。

Comprehensively improve steel mesh quality:

Instead of manual inspection, the establishment of steel mesh control standards, effectively reduce manual cost, greatly improve product quality. Can quickly solve the problem of open steel mesh and steel mesh cleaning, improve the cleaning process, and from the source to solve more tin, less tin, even drought printing problems.

智能化钢网检测系统:

德中拥有行业内领先的全自动智能钢网检测系统，能够有效的智能检测面积大小、位置偏移、是否有异物、是否有孔、张力不足等问题。生成报告迅速，导入 gerber、LMD 文件，采用模块化数据结构，1-3分钟 内可立刻检测查看结果；

Intelligent steel mesh detection system:

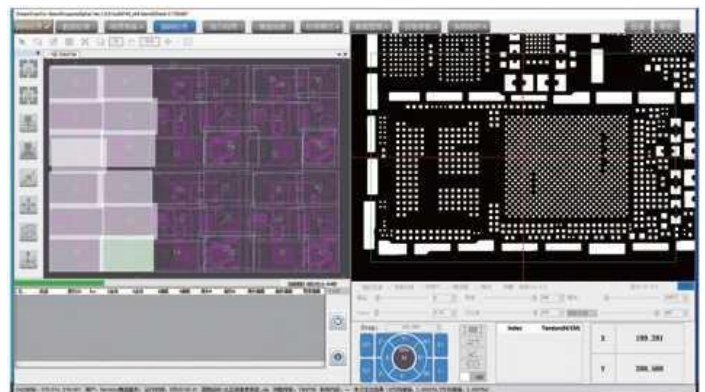
German-china has the industry's leading automatic intelligent steel mesh detection system, which can effectively detect the area size, position offset, whether there is foreign body, whether there is hole, lack of tension and other problems. Generate report quickly, import gerber and LMD files, adopt modular data structure, can immediately check the results within 1-3 minutes;

成熟稳定的硬件结构:

设备基台采用铝合金材料，龙门架结构设计，高精度伺服电机、滚珠丝杠运动结构，设备动态响应快，功耗更低，有着不错的定位精度及定位速度。既能保证运行稳定可靠，无内应力，使设备长期保持高精度的运行状态。又可以轻便移动，适合多种应用场所，提高设备的性价比。

Mature and stable hardware structure:

The equipment base is made of aluminum alloy material, the structure design of the gantry frame, the high precision servo motor, the ball screw movement structure, the dynamic response of the equipment is fast, the power consumption is lower, and the positioning accuracy and speed are good. It can not only ensure stable and reliable operation, no internal stress, so that the equipment can maintain high precision operation state for a long time. And can be portable, suitable for a variety of applications, improve the cost performance of equipment.



绝佳的SMT Stencil数据处理工具:

德中StencilCheck的一个独具优势，则是倾心开发的 独立数据处理软件CircuitCAM7,可用PCB gerber直接对比钢网GERBER数据，从源头上保证钢网GERBER的设计正确性，保证来料设计正确。软件可以测量焊盘的开孔面积及外形尺寸，对钢网数据进行设计准则检查。也可用软件进行钢网开孔的数据处理。

Excellent SMT Stencil data processing tool:

A unique advantage of German and Chinese StencilCheck is the independent data processing software CircuitCAM7 developed by heart. PCB gerber can be used to directly compare the GERBER data of steel mesh, so as to ensure the design correctness of steel mesh GERBER from the source and ensure the correct design of incoming materials. The software can measure the opening area and dimensions of the pad, and check the design criteria of the steel mesh data. Software can also be used for data processing of steel mesh holes.

自动化程度高:

StencilCheck采用模块化数据结构，操作简单便利，超短时间即可检测查看结果。检测项目全面，开孔精度、形状、多孔、少孔、面积误差、边缘毛刺等全部囊括其中，厂商可大幅提高钢网的良率，增加生产效益。

High degree of automation:

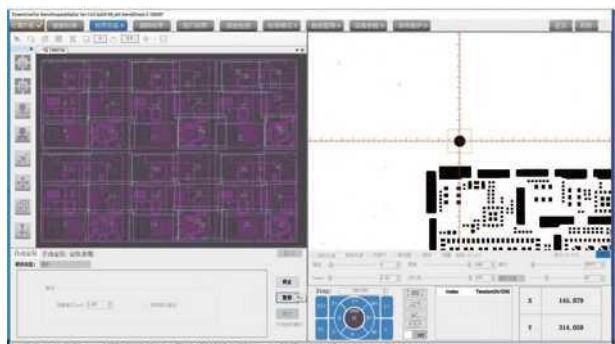
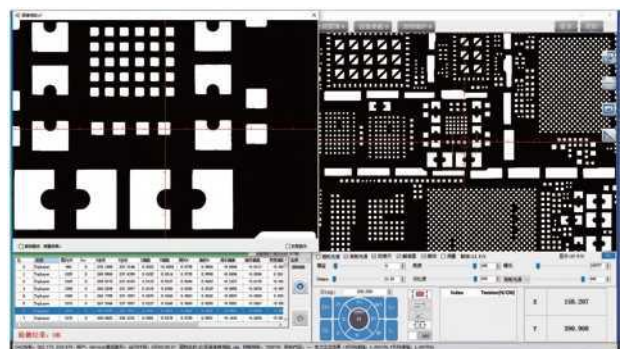
StencilCheck adopts modular data structure, easy to operate, and can check the results in a very short time. Testing items are comprehensive, opening precision, shape, porosity, less holes, area error, edge burr and so on all include, manufacturers can greatly improve the yield of steel mesh, increase production efficiency.

成熟稳定的硬件结构:

设备基台采用铝合金材料，龙门架结构设计，高精度伺服电机、滚珠丝杠运动结构，设备动态响应快，功耗更低，有着不错的定位精度及定位速度。既能保证运行稳定可靠，无内应力，使设备长期保持高精度的运行状态。又可以轻便移动，适合多种应用场所，提高设备的性价比。

Mature and stable hardware structure:

The equipment base is made of aluminum alloy material, the structure design of the gantry frame, the high precision servo motor, the ball screw movement structure, the dynamic response of the equipment is fast, the power consumption is lower, and the positioning accuracy and speed are good. It can not only ensure stable and reliable operation, no internal stress, so that the equipment can maintain high precision operation state for a long time. And can be portable, suitable for a variety of applications, improve the cost performance of equipment.



StencilCheck E700 SMT Stencil Inspection Equipment

Technical Parameters	StencilCheck E700
Measure the project	Opening area, location, offset, size, foreign body, burr, and Blocking holes, tension
Maximum stencil frame size	736*736 mm
Minimum stencil frame size	300*300 mm
Maximum inspection area	500*500 mm
MT	50s (standard 130mm*100 mm, data: 25122 holes)
Camera pixel	12 megapixel
Lighting	Special white LED light source (long strip light source)
Resolution ratio	7.4 μ m
Precision of the opening area measurement	GaugeR&R<5.0%
Opening section position measurement accuracy	$\pm 10 \mu$ m
Platform position accuracy	$\pm 25 \mu$ m
FOV	24*16 mm
Maximum Inspection size	24*16 mm
Minimum Inspection size	80*80 μ m
Minimum inspection hole diameter	80 μ m
Inspection openings quantity	unlimited
Data traceability	Automatically save inspection data
Report generation	Automatically generate inspection report
Equipment Size (Wx Hx D)	1,327mm x 1,281mm x 1,351mm (L * W * H) without tri-color lights
Equipment weight	1000 kg

Optionals	StencilCheck E700
Automatic scraper detection	Optional
microobjective	Optional
Tension measuring function	Optional
SPC function	Optional
MES function	Optional

Working environment	StencilCheck E700
Power supply	220VAC/50Hz 1.5kW
environment temperature	22°C $\pm$ 2°C



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参数更改，恕不通知

CH2022281S

StencilCheck E700 SMTStencil Inspection Equipment

技术参数	StencilCheck E700
检测项目	开孔面积、位置、偏移、尺寸大小、异物、毛刺、堵孔、少孔、多孔、张力
最大网框尺寸	736*736mm
最小网框尺寸	300*300mm
最大检测区域	500x500mm
检测时间	50s （130mm X 100mm标准，数据：25122孔）
相机像素	1200万
照明	大面积背光源
分辨率	7.4 μm
开口部面积测量精度	Gauge R&R <5.0%
开口部尺寸测量精度	±10 μm
平台位置精度	± 25 μm
FOV	24*16mm
最大检测尺寸	24*16mm
最小检测尺寸	80*80 μm
最小检测开孔间距	80 μm
检测开孔数量	无上限
数据可追溯性	自动保存检测数据
报表生成	自动生成检测报告
设备尺寸（WxHxD）	1,327mm x 1,281mm x 1,351mm （长*宽*高）不含三色灯
设备重坦	1,000kg

配套及选项	StencilCheck E700
自动刮刀检测	选配
显微物镜	选配
张力测量功能	选配
SPC功能	选配
MES功能	选配

工作环境	StencilCheck E700
电源	220VAC/50Hz 1.5kW
环境温度	22°C±2°C

参数更改，恕不通知



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