Table top high speed automatic optical inspection system

specialty

BF18D BF18D-- P40 P40

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■ Industry-leading high-speed inspection capability

The alternating color digital scanning system (*1) ensures that a scan is passed

To obtain the complete image of the whole PCB board, so as to achieve high-speed inspection.

It takes only 12 seconds to scan a medium-size PCB (250*330mm).

(*1) Linear scanning mode and alternating lighting system ensure that a scan is passed

To obtain multiple complete images of the whole PCB board.

■ The scope of application has been broadened

PCB substrate height up to 40mm down to 60mm for inclusion

PCB board of high parts can also be checked.

Table machine is suitable for any process, paste post-printing process, reflow soldering pre-furnace process, and post-process.

■ High reliability optical system

The use of telecentric focusing lenses (*2) and automatic digital dimming systems (*3) greatly enhances machine repeatability and compatibility, thus ensuring high inspection results

Accuracy. In addition, the use of high brightness MLT lighting system (*4) to achieve optical character recognition, polarity check and solder paste status check functions, and get clearer

The real image.

(*2) The self-developed unique lens corrects the distortion of the image edge perspective, thus ensuring the accuracy of the inspection results.

(*3) Automatically calibrate the brightness of each pixel in the image so as to obtain a clearer real image.

(*4) High brightness LED(full coaxial oblique lighting, true color lighting system, low Angle oblique lighting)

High resolution image processing system

The 18 micron high resolution color linear CCD ensures the accuracy of the 0201(0603) microchip element

And 0.4mm pin spacing IC components solder condition accurate and stable inspection.

■ Shorten the inspection process time

● In the process of confirming various appearance defects, the image is processed in memory, which shortens the inspection waiting time.

● The loading time of PCB substrate can be measured by the area sensor system at the entrance of the substrate, and the safety of the inspection process can be realized by the function of checking from the start

And high speed. (For each inspection, you can also choose the previous way of starting the inspection by pressing the

button)

● When checking the patch on both sides, the machine can automatically identify the front and back of PCB board and automatically switch the preset test program by using the function of automatic test program switch on surface AB

It corresponds to the front and back of the PCB board.

■ Bar code recognition function

The barcode recognition function (* optional) can be used to identify 1 /2 dimensions (QA. Data spacing array), the barcode recognition can be used to integrate with other analysis software platforms to build

Establish the state record of each production base plate.

■ Prevent missing items from inspection

Use OK signal function (* optional) optional equipment OK signal function, for the judgment of good substrate press OK signal, can prevent the inspection of the problem of missing items.

■ model

BF18D-P40

■The system specifications

Check maximum size of substrate：50×50 ～ 250×330mm

Range of substrate thickness：0.6 ～ 2.5mm

Flatness of substrate：+/- 2mm

Upper and lower clear height of substrate：Above the substrate: 40mm

Above the substrate: 40mm

Component rotation inspection：0-359 ° rotation (unit: 1°)

Check the project：Missing parts, offset, side, monument, upside down, Extreme reverse, wrong piece, bridge connection, dirt, none

Tin, little tin, virtual welding, component warping, IC warping

Foot, OCR: Optical character recognition, etc.

Post-printing process: wuxi paste, too much solder paste,

Dirt, surface scratches, short circuit, solder paste

Offset, bridge connection, etc.

Scanning speed：250 x 330mm: about 12 seconds

Standard inspection speed：0.1ms/Window

TScanning speed：250 * 330 mm: 12 seconds

Video camera (image processing)：Color linear CCD

Image resolution：18 μm

Lighting system：LED lighting

Track width adjustment：manual

■ System requirements

The power supply   AC 100 ～ 240V, 800VA,50/60Hz

Air pressure source   Don't need
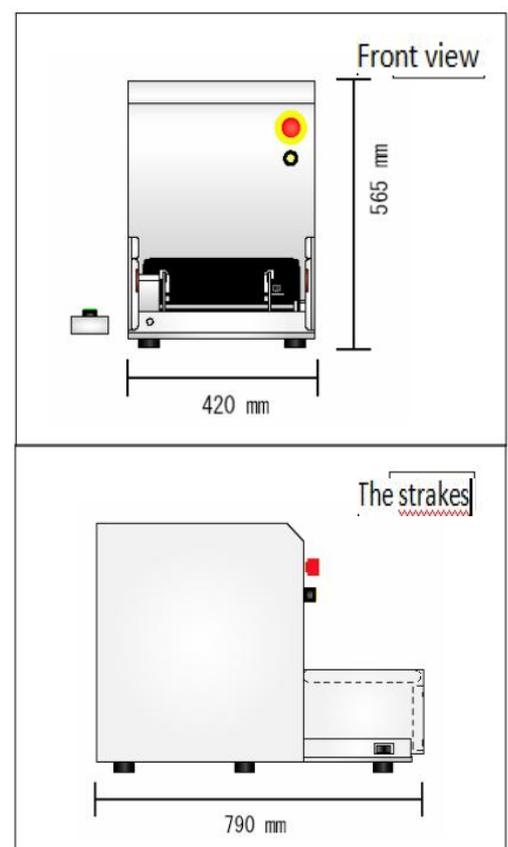
Ambient temperature /   15 to 30 ˚C / 5 to 80 % RH
Environmental humidity   (No frost)

Overall dimensions   420mm(W)*790mm（D）*565mm(H)
(width * length * height)

The weight of the：45Kg (excluding the weight of the monitor and PC)

Overall dimensions

Front view

565 mm

420 mm

The strakes

790 mm

SAKI BF18D- P40

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The operating system：Windows2000 (Japanese/English)

Options available with SAKI in linear machine configuration system: BF-RP1, BF-Editor, BF - Monitor.

Option parts：Bar code recognition function
OK signal function The printer