



Shenzhen Eton Automation Equipment Co., Ltd.  
smtmountingmachine.com

## LED Lighting Board SMT Machine Multifunctional Pick And Place Machine

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: ETON
- Certification: CCC/CE
- Model Number: HT-E8S-1200



### Product Specification

- Machine Name: Pick And Place Machine/led Lighting Production Line
- Machine Warranty: One Year
- Machine Quality: Perfect
- Machine Max Pcb: 1200\*500 Mm
- Highlight: **LED Lighting Board SMT Machine,  
LED Lighting Board SMT mounter machine,  
CCC multifunctional Pick and place machine**

## Product Description

### LED Lighting Board SMT Machine

**Key name:** Lighting board smt/smt machine/led lighting smt machine/led lighting machine

#### SMT Machine

SMT Machine is mean "surface mount technology ", normally included the machine like: Pick and place machine/ stencil printer machine/conveyor machine/loader machine/unloader machine/robot arm machine/solder paste mixer/etc

#### Machine operate

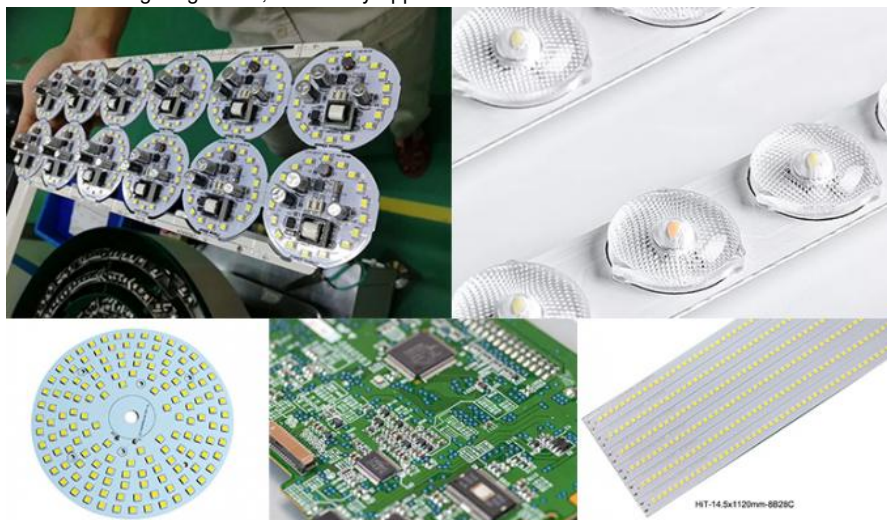
SMT Main machine is control by the computer, some small machine is controlled by the PLC, The main machine is like : Pick and place machine, automatic printer machine, reflow oven machine

Computer control is high-intelligent machine, working by the special setting programming. PLC Control is for the small machine, it is very easy to operate.

SMT Machine is easy to operate with more intelligent machine design and more automatically, could save labor cost much than the traditional manual or DIP Line.

#### Machine application

SMT Machine is widely apply to many kind of led lighting board and the driver board. HT-E8S-1200 is the multifunctional mounter machine for mounting led chip/resistor/capacitor/etc. It could apply to max pcb size 1.2m length and 0.5m width. For most of lens lighting board, it is widely application.



Suitable different shape of LED Lighting and electrical board

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#### Operator require

For SMT machine, if using automatic line, normally need 1-2 workers, if using semiautomatic line, normally need 2-3 workers. For the rich experience worker, even 1 worker could work for multi-line.

The placement machine is the core production equipment in the SMT production process, and it is also a sophisticated production equipment. The operators of the placement machine must undergo pre-job training and pass the examination before they can start work. The basic requirements for the work flow of the placement machine and the operation of the placement machine are the knowledge that the placement machine operator must require.

Workflow of placement machine:

The function of the placement machine is mainly through PCB board fixing->component suction->displacement->positioning->component placement and other operations.

1. The PCB board to be mounted enters the work area and is fixed at the predetermined position.
2. The component material is installed on the feeder, and installed to the pick-up position of the placement head according to the position set in the program.
3. The placement head will move to the position of picking up the components, turn on the vacuum, the suction nozzle will go up and down to pick up the components, and then use the vacuum sensor to detect whether the components are sucked.
4. Carry out component identification, read the component characteristics of the component library and compare them with the components picked up. If the comparison and evaluation do not meet, the components are thrown into the waste box. If the comparison and evaluation match, then calculate the center position and angle of the component.
5. According to the setting in the program, adjust the rotation angle of the component through the Z axis of the placement head, and move the placement head to the position set by the program, so that the center of the component coincides with the mounting position of the PCB board.
6. The suction nozzle of the placement machine will drop to the height set by the program, turn off the vacuum, and the component will fall, and the secondary component placement operation will be completed.
7. After all the components are mounted, the suction nozzle is placed back in place, and the PCB board is transferred to the set position. Complete the mounting operation of the entire PCB board.

The workflow of the placement machine can be summarized as: board feeding and mark recognition -> automatic learning -> nozzle selection -> feeder selection -> component picking -> component detection for evaluation -> placement -> nozzle homing -> output board.



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