NEW

Model 850

Flip Chip Placement System



Semiconductor Equipment Corporation's Model 850 is a versatile, semi-automatic placement system for flip chips, chip scale devices and bare die. The system is intended for low volume production and development projects requiring accuracies of +/- 12 microns. A typical application consists of a cycle in which devices are picked up from a waffle pack, dipped into flux and then placed on a substrate.

An optional heated stage is available. An additional option, SEC's Model 430 Hot Gas Jet Module (see description on reverse side) can be integrated to operate on the Model 850 as a spot heating source for reflow on this system.

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Model 850

Color Video System

A motorized zoom lens allows the operator to optimize viewing with its standard range of 40X to 240X. Other ranges are available.



Fiber Optic Illuminators

The system has two separate fiber optic illuminators with separate controls for each, one illuminating the die and the other illuminating the substrate.

Micrometer Adjusted Stage

A micrometer stage is used to adjust X,Y and Theta to move the substrate into exact alignment with the die. A 4 inch square vacuum chuck is provided.

SEC Model 430 Hot Gas Spot Heater (optional)

The Model 430 Hot Gas Jet Module uses heated gas to heat a single die to reflow. Its closed loop temperature control and gas flow control are integrated with the operation of the Model 850. This unit may be purchased as a field upgrade.

Sliding Table With Brakes

The system has a sliding table which has a 5" x 13" travel. Table movement is controlled by a joystick. Pneumatic brakes lock the table in position

Heated Stage (optional)

The heated stage is capable of 350°C operation . It incorporates a separate control box with its own closed loop temperature controls. This unit may be purchased as a field upgrade.

Specifications

as a field upgrade.

- · Plus or minus twelve micron placement accuracy.
- Four 2x2 waffle pack pickup stage.
- Four inch square vacuum stage standard (optional sizes available).
- Bond load- 30 to 200 grams standard (10kg optional).
- Throughput- Up to 200 placements per hour.

Utilities

· Compressed air:

60 psi

Vacuum:

20 inches Hg

Power

110V, 3 amp- 60 Hz

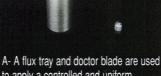
220V, 1.5 amp- 50 Hz

39"W x 30"D x 24"H

· Size: Weight

System- 185 lbs. Shipping- 225 lbs.





to apply a controlled and uniform thickness of flux.

B.- Die are picked up from waffle packs.

C.- SEC's Model 430 Hot Gas Jet Module delivers heated gas to the die in order to reflow a single die without affecting nearby components.





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