

High-Speed Chip Placer

CP-643E



High-end model of the renowned CP-6-series with the fastest throughput yet.

One of the major breakthroughs made with the CP-643E is its PCB loading times, now down to 1.4 sec. per PCB, or more remarkably, 0.7 sec. when two small PCBs are loaded and produced simultaneously.

Placing up to 40,000 chips an hour, the CP-643E is the ideal mounting entry point for any assembly line. With a surprisingly flexible component holding potential of up to 140 different part types, able to place tiny 0.6 x 0.3 mm chips to CSPs.

Due to the employment of a new camera with a resolution of 12 mm /pxl, the machine is now able to meet the high placing accuracy requirements of 0603s (in.0201s).

By additionally enhancing the frontlighting capabilities, 100% detection of missing bumps is now possible for CSPs, such as micro BGAs.



Features

- Placing speed of 0.09 sec./shot.
- Lower cycle times with double PCB loading.
- PCB loading time of 0.7 sec./PCB using the double PCB loading system.
- Now mounting 0603s and CSPs.
- By using the lower surface of the PCB as the reference surface, adjustment of the back-up pins for production changeover is no longer necessary.
- Shock free back-up plate for more stable placement (Optional).
- Simple press-in style feeder loading.
- Mounting Bulk feeders.
- This machine extends the powerful capabilities of the CP-642.

- Options**
- Handy Terminal
 - HELPS (computerized job change assistance system)
 - Shock free back-up

Specifications

PCB dimensions	Max.: 508mm X 356mm Min.: 80mm X 50mm t = 0.3 to 4.0mm (Option required for handling of PCBs of less than 0.5 mm in thickness)
Component capacity	Up to 140 types (8 mm tape)
PCB loading time	0.7 sec. / PCB with double PCB loading 1.4 sec. / PCB with single PCB loading Loading time does not include XY-table movement. Double PCB loading is possible for PCBs up to 220 mm in length
Placing Rate	0.09 sec. / component
Applicable components	0603 (in. 0201) to 19 x 20 mm (20 x 20 mm for J-leaded components) up to 6 mm in height
Placing accuracy (fiducial mark reference)	± 0.066 mm (3 σ) in XY-direction. Rotation errors converted to XY-offsets
Power	3-phase, 200 to 480 VAC, 10kVA (1.25kVA in power saving mode)
Air supply	0.5 MPa (5 kgf / cm ²), 46 N l / min.
Machine dimensions	L: 4843 mm W: 1734 mm H: 1851 mm (H: excluding signal tower) Conveyor length: 3500 mm
Weight	Approx. 6500 kg

SECS / GEM Support (Option)