



FCA 1000 Fine pitch CSP placement

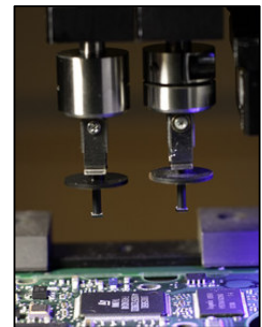


The new Getech **FCA 1000** is designed for high-speed placement of fine pitch (0.1mm) **CSP** and **μBGA**. The FCA applies the latest technology to the four key elements for high speed component placement: *Precision Placement, Vision technique, component feeding and high speed fluxing.*

On the fly vision processing while the head travels the shortest distance between the pickup point, fluxing station and the placement point provides optimal placement speeds.

- Waffle tray and (8,12) tape feeders
- High speed linear motors for all axis providing greater reliability
- TM blue light illumination for high contrast image processing
- Thin film Fluxing station with linear moving doctor blades
- Waffle tray and tape feeders

- 0.1mm Fine pitch **μBGAs, CSPs**
- 30μm Placement accuracy
- 1.5 sec cycle time including fluxing



Basic specifications for the FCA 1000

Board size	50 x 50mm to 350 x 300mm
Board thickness	0.2 to 5.0mm
Flow direction	Left to right
Board locating method	Board edge detection, Full vision alignment mark recognition
Conveyor configuration	3 Stage with automatic width adjustment
Conveyor speed (mm/sec)	Process:180, Input/output: 250, variable speed soft stop function
Head configuration	Up to 4 heads
Placement speed	1.5 sec / chip
Fluxing carrier	Adjustable thin film with doctor blade
Axis encoder resolution	0.0005mm
Placement accuracy ($\mu+3\sigma$)	+/-0.03mm
Placement angle	+/-180°, resolution 0.018
Z-axis control	High speed with compliant placement Force control. Resolution 0.001mm
Components applicable	Fine pitch (0.1mm) CSP, μ BGA, SOP, PLCC, QFP
Component recognition	Multi view grey scale image process
Component carriers	8, 12mm tape feeder, waffle tray feeders
Component size	2.0 x 2.0mm to max 14 x 14mm
Component height	5mm (Pre-placed components max. 10mm)
Language display	English
Board transfer height	900+/-20mm
Dimensions, weight	D1600 x W1180 x H1600mm, 1,500Kg approx
Power, / Air consumption	3phase 415V +/-10% 50/60Hz, / 52L/min @ 5bar