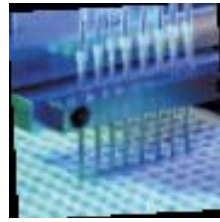


CTL



Manufacturing Value Leader

The *CTL* is the affordable solution to advanced research and process development applications. The modular work cell offers consistent vision-driven accuracy, flexible configurations, linear motion technology, 1000 UPH speed and an impressive work envelope. *CTL* can be configured as a stand-alone instrument or integrated with your production line for performance at a value that's virtually unmatched.

Price and Performance

The *CTL* is the answer to demanding applications and tight budgets. Fully configured with state-of-the-art linear motion and vision systems, the *CTL* is capable of delivering high quality process assembly at an entry-level price.

Modular x Flexible

Utilizing a single pick-and-place head with a vision registration and inspection system, this platform can be configured to perform a wide variety of module and package assembly processes. With a flexible design and an extensive range of standard peripherals, custom configured systems can be delivered with minimal engineering time and expense.

Workspace x Floor Space

A total footprint of only 1.3m encloses a large configurable work envelope. An overhead gantry design allows for a fully accessible worktable, while making efficient use of production or lab floor space.



ARCon Parts, LLC

CTL Specifications

*Assay Miniaturization
Biochip Development 384
to 1536 wells Colony
Picking Slide Handling Gel
Excisions*

Transfer/Placement Heads

Options

- 1 head configuration
- Placement pressure range 0.22lbs (0.1 kg) to 4.4lbs (2.0 kg)
- Programmable Z-speed, pressure and dwell time
- Optional end-of arm tooling equipment
- LaserAlign optical in-flight alignment of components up to 32mm (1.26")
- Vacuum nozzles, die collets, custom tools
- Spring loaded compliant tips are used for lower force requirements

Tray/Process Carriers/Substrate Handling

Dimensions (x, Y) 3" x 2" (75mm x 51mm) up to 18" x 20" (457mm x 508mm)
Subject to process configuration

Types Auer, JEDEC (or similar design), BGA, graphite boats, custom carriers, lead frames, strips, PWBs, clipping, and custom part securing, microslides, microplates
Bi-directional conveyors (single or dual)

Components

Dimensions Minimum: 0.01" x 0.01" (0.25mm x 0.25mm)
from wafer pack,
0.04" x 0.04" (1.02mm x 1.02mm)
from wafer

Maximum: 3" x 3" (75mm x 75mm)
Consult factory for specific size and weight > 1 kg

Performance

Placement Accuracy X, Y +/- 0.001" (0.025mm)
Z Normally compliant
All values are 3 sigma values using local fiducial vision tools

Encoder Resolution X, Y 0.000008" (0.002mm)
Z 0.000004" (0.0010mm)
Theta 0.005 degrees

Placement Rate 400 - 1200 UPH (subject to process)

Standard Component Handling and Feeding Systems

- Pallet stacker/destacker
- Wafer die ejector
- Tray feeders (waffle pak, gel pak, custom)
- Label feeders
- Static platforms
- Tape and reel feederbanks

*For more information:
Contact us at 1-919-212-1279*

Options

- Auto vacuum tip change rack
- Barcode reader and writer
- Custom under-board support
- Epoxy and adhesive dispense heads
- Flux applicators

Dimensions and Weight

Footprint 41.3" W x 45.5" D x 65.0" H (1.04m x 1.16m x 1.65m)

Work Envelope (x, Y, Z) 22" x 26" x 3.5" (559mm x 660mm x 89mm)
Subject to process configuration

Weight 2500 lbs (1134 kg)

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