

# Alta Pick and Place System

## TECHNICAL SPECIFICATIONS



### Pick and place module

- Minimum pitch: 0.5 mm
- Cut tape components
  - Sizes: 0402 to 5050 (imperial)
  - Height: Up to 12 mm
  - Types: QFNs, connectors, odd-shaped SMD components
- Loose tray components
  - Sizes: Up to 20 × 20 mm
  - Weight: Up to 30 g
  - Height: Up to 15 mm
- Handles both single and double-sided boards
- Placement success:  $\geq 99.8\%$
- Board thickness: 1.2-2.54 mm
- Board finishes: HASL, ENIG, OSP, immersion tin, immersion silver
- Board capacity: Up to 10 boards in parallel

### Solder paste dispensing module

- Compatible paste: Leaded, lead-free
- Minimum pitch: 0.5 mm
- Volume: Up to 5 cc cartridge
- Supports solder dots and lines

### Feeder

- Component types: Cut tape, loose
- Feeder sizes: 8, 12, and 16 mm widths

### Software

- Operating system: Browser-based
- Automated optical inspection (AOI)<sup>[1]</sup>
- File formats – Gerber and CSV from:
  - Altium Designer
  - Cadence OrCAD/Allegro
  - KiCad
  - Autodesk Fusion 360

### Machine body

- Bed size:  $\approx 216 \times 400$  mm<sup>[2]</sup>
- Dimensions:  $\approx 619 \times 540 \times 420$  mm<sup>[2]</sup>
- Weight:  $\approx 19$  kg<sup>[2]</sup>
- Power requirements: 100-240 VAC, 50/60 Hz
- Connectivity: Laptop
- Compatible modules: Pick and place module, solder paste dispenser

[1] AOI is an optional add-on, purchased separately.

[2] Bed size, dimensions, and weight are subject to change.