

ASSEMBLY FEATURES

- Maximized flexibility, scalability and productivity at a lower cost than other competitive solutions available
- Provides unlimited flexibility with the patented Adaptive Compliant Technology (ACT) of the CHAD PIE™, handling all through-hole, surface mount and mixed technology applications without the need for tool changes
- Assembles virtually all component types, including axials, radials, pin headers, DIP's, SIP's, connectors, transformers, relays, TO-220's, displays, LED's, surface mount, small daughter boards, PGA's, and more
- Electronics final assembly applications handled include, but are not limited to, small parts assembly, automated screw driving, riveting and fastening, adhesive dispensing, inspection and light press operations
- CHAD patented Programmable Single Pin Clinch System allows clinching of any number of leads in any direction (0-360°) without tool changes
- Optional vision recognition available for board registration, part location, part inspection, and insertion verification
- CAD data entry allows offline programming in a simple comma delimited format. VisionTech™ and AutoTune™ options allow for easy touch-up
- Automatic program selection and lot data tracking available with board and part bar codes
- Quick-change feeder base allows for quick changeover of 3 to 6 feeders



The **CHAD IQs™** is a perfect building block for your Odd-form and Electronics Final Assembly applications.

The SCARA-based **CHAD IQs™** is designed to provide performance and flexibility to effectively accommodate changing volume and product mix requirements.

Utilizing CHAD's production tested array of assembly heads, parts feeders, lead clinching, and data management features, you are guaranteed the most reliable, cost-effective performance available on the market.

FOR MORE INFORMATION:

CHAD INDUSTRIES
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CHAD//Qs™ System Specifications

| | | | |
|--|---|---|-------------------------------|
| Machine Dimensions | <i>Length</i> | 1,118mm (44.0") | |
| | <i>Depth</i> | 1,600mm (63.0") | |
| | <i>Height</i> | 1,164mm (65.5") | |
| Board Handling | <i>Min. Width</i> | 76mm (3.0") | |
| | <i>Max. Width</i> | 254mm (10.0") | |
| | <i>Min. Length</i> | 76mm (3.0") | |
| | <i>Max Length</i> | 356mm (14.0") | |
| Feeder Capacity | Three (3) available Feeder Slots [six (6) and ten (10) slots optional] | | |
| Positioning System Specifications | (X,Y) Axis | | |
| | <i>Repeatability</i> | +/- 25µm (.001") | |
| Insertion Head Specifications | Z Axis | Theta | |
| | <i>Max. Stroke</i> | 178mm (7.0") | <i>Rotation</i> 360° |
| | <i>Repeatability</i> | +/- 25µm (.001") | <i>Repeatability</i> +/- .03° |
| | | | |
| Clinch Specifications | <i>Method</i> | Leads clinched independently in any direction with patented single pin. | |
| | <i>Angle</i> | Programmable to any angle desired. | |
| | <i>Direction</i> | Programmable to any direction 0 to 360° | |
| | <i>Lead Span</i> | Min. = 3mm (.100") Max. = Unlimited | |
| Power & Air Requirements | 208 VAC, 1ph with Neutral and Ground, 50/60 Hz, 30 Amp, 90 to 100 PSIG @ 4.0 CFM/40 Micron | | |
| Controller | PC with Adept SmartController CX with V+ Operating System and AIM Package, digital I/O @ 24 VDC, manual control pendant, e-stop, status lamps, and power switch. | | |
| Options | <p>Feeding/Conveyance: Feeders (axial, radial, tube, continuous header, tray, bowl, GPAX, third party), Conveyor Buffer Upgrade</p> <p>Part Handling: Assembly Heads [PIE (Programmable 3-D Adaptive Compliant Technology), SGE (single grip)], Automatic Tool Changers and Racks</p> <p>Programming/Intelligence: Automatic Program Selection Software, Network Communication Interface, Stepper Motor Control (BLT-1S, -2S, -3S), AutoTune™</p> <p>Miscellaneous: Dual Panel Monitor Upgrade, CE Compliance Upgrade</p> | | |

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