

CHAD IQs-10™

Performance Based Odd-Form and Electronics Final Assembly Platform

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 up to 10 feeders



The **CHAD IQs-10™** is a perfect building block for your Odd-form and Electronics Final Assembly applications.

The SCARA-based **CHAD IQs-10™** is designed to provide performance and flexibility to effectively accommodate changing volume and product mix requirements.

The **CHAD IQs-10™** offers all the same features and capabilities as the basic IQs, but with the capacity of ten (10) feeder slots.

FOR MORE INFORMATION:

CHAD INDUSTRIES
1565 S Sinclair Street
Anaheim, CA 92806

PHONE: (714) 938-0080
FAX: (714) 938-0630
WEB: www.chadindustries.net



CHAD//Qs-10™ System Specifications

Machine Dimensions	<i>Length</i>	1,473mm (58.0")	
	<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	Ten (10) available Feeder Slots		
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>		

FOR MORE INFORMATION:

CHAD INDUSTRIES
1565 S Sinclair Street
Anaheim, CA 92806

PHONE: (714) 938-0080
FAX: (714) 938-0630
WEB: www.chadindustries.net

