

DISTINCTIVE FEATURES

- Provides speed, flexibility, and accuracy significantly exceeding all other competitive products on the market
- Provides unlimited flexibility for board assembly applications with the patented PIE 3-D Adaptive Compliant assembly head, handling all through-hole, surface mount and mixed technology applications without the need for tool changes
- Assembles virtually all component types, including axials, radials, header strip, 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
- Teaching and touch-up of insertion locations are simple with the VisionTeach™ and AutoTune™ options
- Quick change feeder base allows removal or addition of feeders within seconds
- Maximum scalability for changing application requirement



With a state-of-the-art **CHAD** linear motor driven manipulator system, the **CHAD IQ_h**™ is setting the industry standard. This system provides the ultimate combination of speed, flexibility, and accuracy with price-to-performance ratios never before offered in the odd-form or electronics final assembly markets. Configured with standard **CHAD** tools, the **CHAD IQ_h**™ flexibly and reliably handles oddform, through-hole, and fine pitch surface mount PCB applications along with a variety of small electromechanical assembly applications. Utilizing **CHAD's** proven patented assembly heads, single pin clinching, and parts feeding technologies you are guaranteed the most reliable, cost-effective performance.

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//Qh™ System Specifications

| | | | | |
|--|--|---|----------------------|----------|
| Machine Dimensions | <i>Length</i> | 1,270mm (50") | | |
| | <i>Depth</i> | 2,032mm (80") | | |
| | <i>Height</i> | 1,778mm (70") | | |
| Board Handling | <i>Min. Width</i> | 76mm (3") | | |
| | <i>Max. Width</i> | 381mm (15") | | |
| | <i>Min. Length</i> | 76mm (3") | | |
| | <i>Max Length</i> | 457mm (18") | | |
| Feeder Capacity | 16 | | | |
| Positioning System Specifications | (X,Y) Axis | | | |
| | <i>Repeatability</i> | +/- 25µm (.001") | | |
| | <i>Accuracy</i> | *High and Low accuracy packages available based on application requirements | | |
| Insertion Head Specifications | Z Axis | Theta | | |
| | <i>Max. Stroke</i> | 100mm | <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 | 200 – 240 VAC, 3ph with neutral and ground, 50/60 Hz, 30 Amp, 90 to 100 PSIG @ 8.0 CFM/40 Micron | | | |
| Controller | PC with AdeptWindows™ Controller, 32 Flash RAM, digital I/O @ 24 VDC, manual control pendant, external front panel with e-stop, status lamps, key switch, and power switch. | | | |
| Options | <p>Feeding/Conveyance: Feeders (axial, radial, tube, continuous header, tray, bowl, GPAX, third party), Mobile Feeder Cart, Automatic Conveyor Width Adjustment, Programmable Speed Conveyor Upgrade, Conveyor Buffer Upgrade, Dual Lane Handling</p> <p>Part Handling: Assembly Heads [PIE (Programmable 3-D Adaptive Compliant Technology), SGE (single grip), MGE (multi grip)], CHAD MixTech™ Handling System (SMT/THT), Automatic Tool Changers and Racks</p> <p>Programming/Intelligence: Vision System, AutoTune™, AutoCal™, VisionTeach™, CAD Data Drive, Bar Code System for Program Selection and Part Verification</p> <p>Miscellaneous: Management Data Collection and Report Package, Dual Monitor 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

