

Alpha 1 Technologies

R20B-RS-IL Series Radial Lead Inserter



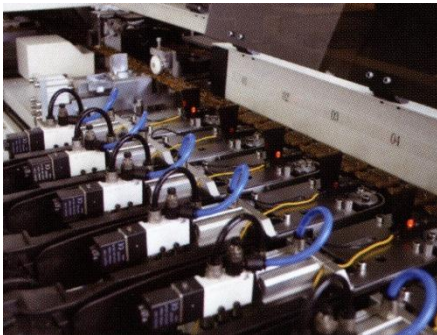
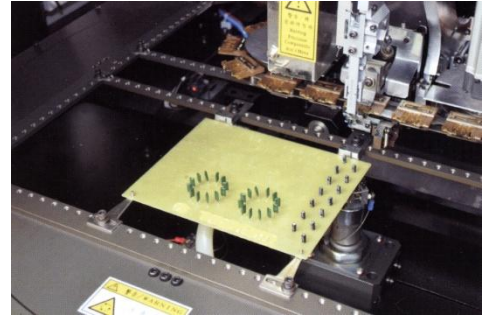
Machine Highlights

- User friendly interface with Windows 7 Operating System
- Tooling will rotate 0 – 360 degrees in 1 degree increments
- Designed for easy maintenance
- Rotary table can rotate either clockwise or counter clockwise, reducing cycle time
- High precision ball screw and AC servo motors deliver positioning system accuracy to 0.001mm
- Fiducial pattern correction with machine vision
- UPS power interruption protection
- Online or offline programming (CSV and CAD import)



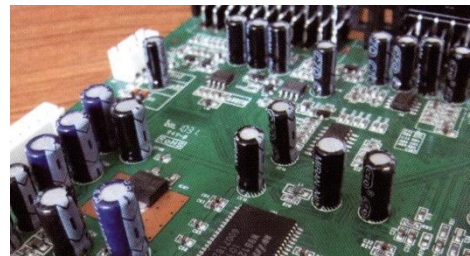
A solid frame, designed to be robust and reduce vibration.

AC servo driven head and clinch allow for 0 – 360 degree insertion.



Using “Off the Shelf” components saves money and extends the life span of your equipment.

Capable of inserting Radial Lead components with a maximum height of 28mm and a maximum width of 13mm.



Model R20B-IN In-Line Radial Inserter

Model R20B-IN In-Line Radial Inserter	
General Specifications	
Theoretical Speed	22,000 cph
Insertion Direction	0° - 360°, 1° Increment
Defect Rate	<300 PPM
Lead Span	2.5/5.0mm
Minimum Board Size (L x W)	50mm x 50mm (1.97" x 1.97")
Maximum Board Size (L x W)	400mm x 250mm (15.75" x 9.84")
Board Thickness	0.79 ~ 2.36mm (0.031" ~ 0.093")
Maximum Process Height	900mm (35.43")
Maximum Component Height	28mm (1.10")
Maximum Component Diameter	13mm (0.51")
Component Style	Capacitor, Transistor, Triode, LED, Mini Switch, Resistor, Connector, Coil, Potentiometer, Fuse block, other Radial Style Taped Components
Cut & Clinch Length	1.2 - 2.2 mm (0.047" to 0.087"), Adjustable
Clinch Angle	10 - 35° (Adjustable)
Component Stations	20 or 40
Machine Dimension (L x W x H)	3150 x 1700 x 1900mm (124.01" x 66.93" x 74.80")
Component Station Size (L x W x H)	1800 x 1450 x 1100mm (70.86" x 57.08" x 43.31")
Weight - Inserter Module	Approx 1800kg (3960 lbs)
Power Requirement	AC220V, Single Phase, 50/60Hz, 1.5Kw
Power Protection	UPS, 15 minutes duration after power loss
Air Pressure	0.6 - 0.8 Mpa (87 – 116 PSI)
Air Consumption	0.3 M ³ /min (10.6 CFM)
Environmental Temperature	5°C - 35°C (41°F - 95°F)
Noise Level	58 db
Clinch Module Movement	AC Servo Motor (Rotation / Up, Down)
Tape Cutter	Single Stroke Cutting Feature
Component Feed to Insertion Head	AC Servo Motor
Position Teaching	Vision System ; Multi Fiducial
Axis Driving System	AC Servo Motor
Data Input Style	USB Port (Excel Format)
Control System	Chinese/English Interface (Windows 7 Platform) LCD Display
Operation Mode	Auto / Semi Auto / Manual
Component Density	High Density Insertion Tooling
Worktable Rotation	Clockwise or Counterclockwise
Board Load Direction	Left to Right or Right to Left (Optional)
Programming	On-line Teaching Off-line Teaching