

Alpha 1 Technologies

R20D-RS-IL / R20D-SA Series Radial Lead Inserter



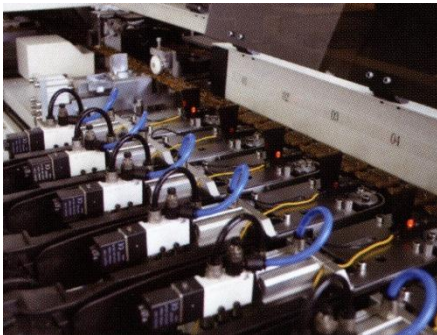
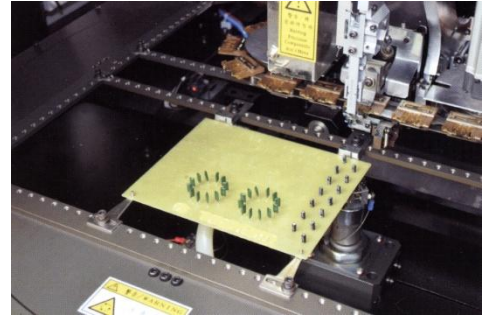
Machine Highlights

- User friendly interface with Windows 7 Operating System
- Competitive pricing
- Available in Stand Alone and optional Inline systems
- Space saving 10 station option
- 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)



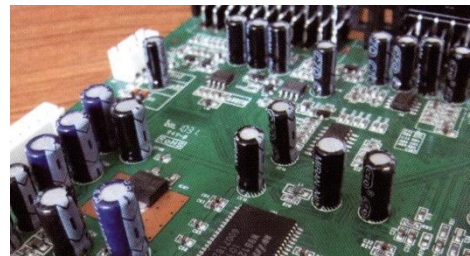
A solid frame, designed to be robust and reduce vibration.

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



Machines can be purchased with optional 10 station small footprint package to save floor space.

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



	Model R20D-IN	Model R20D-SA
General Specifications		
Theoretical Speed	22,000 cph	22,000 chp
Insertion Direction	0° - 360°, 1° Increment	0° - 360°, 1° Increment
Lead Span	2.5/5.0mm; 2.5mm/5.0mm/7.5mm; 5.0mm/7.5mm/10.0mm; 2.5mm/3.5mm/5.0mm; 2.5mm/5.0mm/7.5mm/10.0mm (selectable)	2.5/5.0mm; 2.5mm/5.0mm/7.5mm; 5.0mm/7.5mm/10.0mm; 2.5mm/3.5mm/5.0mm; 2.5mm/5.0mm/7.5mm/10.0mm (selectable)
Minimum Board Size (L x W)	50mm x 50mm	50mm x 50mm
Maximum Board Size (L x W)	400mm x 285mm	450mm x 450mm
Board Thickness	0.79 ~ 2.36mm	0.79 ~ 2.36mm
Maximum Component Height	Max 23mm/option 26mm	23mm/option 26mm
Component Style	Capacitor, Transistor, Triode, LED, Mini Switch, Resistor, Connector, Coil, Potentiometer, Fuse block, other Radial Style Taped Components	Capacitor, Transistor, Triode, LED, Mini Switch, Resistor, Connector, Coil, Potentiometer, Fuse block, other Radial Style Taped Components
Cut & Clinch Length	1.2/1.5/1.8mm, Adjustable	1.2 /1.5/1.8mm, Adjustable
Clinch Angle	10 - 35° External Bending 3.5 Lead Span Internal/External Bending	10 - 35° External Bending 3.5 Lead Span Internal/External Bending
Component Stations	20 Std (10,30,40,60,80,100 Option)	20 Std (10,30,40,60,80,100 Option)
Machine Dimension (L x W x H)	1920 x 1450 x 1700mm	1750 x 1450 x 1700mm
Component Station Size (L x W x H)	1800 x 1450 x 1100mm	1800 x 1450 x 1100mm
Weight - Inserter Module	Approx 1200kg	Approx 1150kg
Power Requirement	AC220V, Single Phase, 50/60Hz, 1.5Kw	AC220V, Single Phase, 50/60Hz, 1.5Kw
Power Protection	UPS, 15 minutes duration after power loss	UPS, 15 minutes duration after power loss
Air Pressure	0.6 Mpa	0.6 Mpa
Air Consumption	0.3 M³/min	0.3 M³/min
Environmental Temperature	5°C - 25°C	5°C - 25°C
Noise Level	65 db	65 db
Clinch Module Movement	AC Servo Motor (Rotation / Up, Down)	AC Servo Motor (Rotation / Up, Down)
Tape Cutter	Single Stroke Cutting Feature	Single Stroke Cutting Feature
Component Feed to Insertion Head	AC Servo Motor	AC Servo Motor
Position Teaching	Vision System ; Multi Fiducial	Vision System ; Multi Fiducial
Axis Driving System	AC Servo Motor	AC Servo Motor
Data Input Style	USB Port (Excel Format)	USB Port (Excel Format)
Control System	Chinese/English Interface (Windows Platform) LCD Display	Chinese/English Interface (Windows Platform) LCD Display
Operation Mode	Auto / Semi Auto / Manual	Auto / Semi Auto / Manual
Component Density	High Density Insertion Tooling	High Density Insertion1 Style
Worktable Rotation	Clockwise or Counterclockwise	Clockwise or Counterclockwise
Board Load Direction	Left to Right or Right to Left (Optional)	Manual
Programming	On-line Teaching Off-line Teaching	On-line Teaching Off-line Teaching