Advanced BGA Rework Station

RD-500V ALL - IN - ONE SEMI-AUTOMATED REWORK STATIONS

Suitable for all kind of reworks on different SMT components





RD-500V

Advanced BGA Rework Station

New Key Features

- Compact and Stable Design
- Larger Board Holding Capacity
- One Touch Lock Fixture Anti-Warpage PCB Support
- Powered Up Focal Top/Bottom Heater
- Powered Up New Technology Faster Response and Save Energy IR Heater
- Larger and Thick Board Heating Area Design
- Larger and Thick Board Holding Capability Design
- 2 Mega Pixel Full HD Camera
- Adjustable Vision LEDs Illumination Intensity
- Motorized Z-Axis Closed Loop Motion Height Control
- Closed Loop Air Flow/ IR Control
- Friendly Ease of Use Software Adopting New Interface
- 3 Points Auto-Profile Mode
- Profile Library Easy Select Mode
- Multiple Reflow Zones Adds
- POP, Chip 0402,0603, QFN...etc...Capable
- N2 Capable
- Optional Contactless Site Cleaning
- Optional Start and Go Diagnostic and Calibration Software



Heating System



Powered Up Heating System

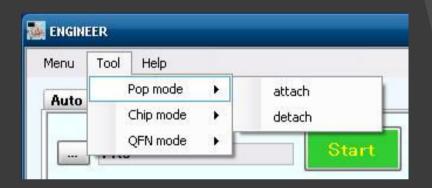
- •
- New IR Technology Faster
 Response 1000 W Top & Bottom
 Heaters
- 3600 W Area Heater
- Larger Area Heater



New Software Features

3 Special Modes:

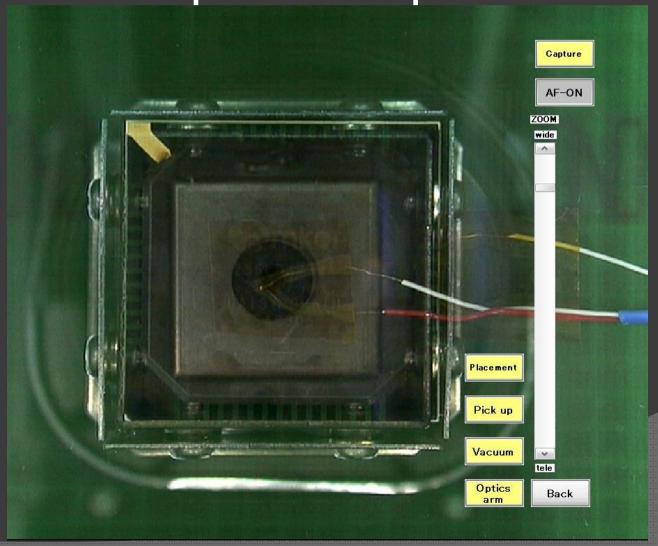
- 1.POP
- 2.Chip Mode for 01005 & 0201
- 3.QFN
- Add New Zones
- New Auto-profile Technique
 - Solder Control
 - Top Package Control
 - Board Temp Control







2MPixel Full HD Camera Improves Optics





Insert Custom Multiple Zone





Auto-profile

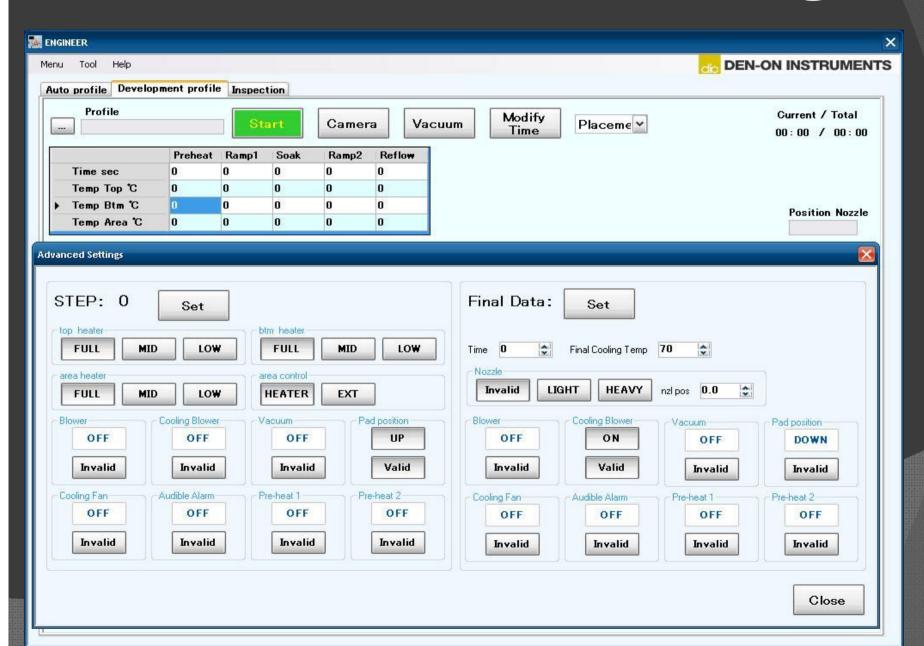


3 Auto-profile Modes:

- Single Point (same as RD500 III
- Dual Point (same as RD500III)
- Three Point Control. New
 - Peak Solder Temp Set point
 - Top Package Maximum Set point
 - Board Temp Input



Full Control Mode - Engineers

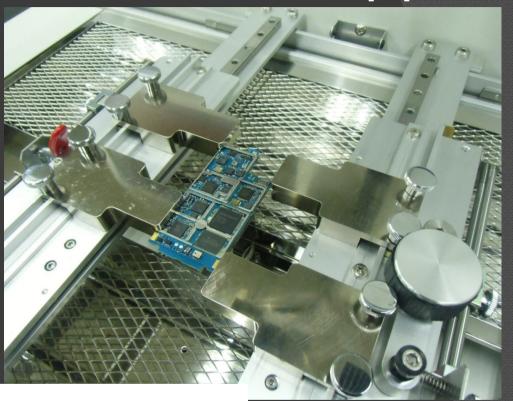




RD-500V

New Board Fixture and Support

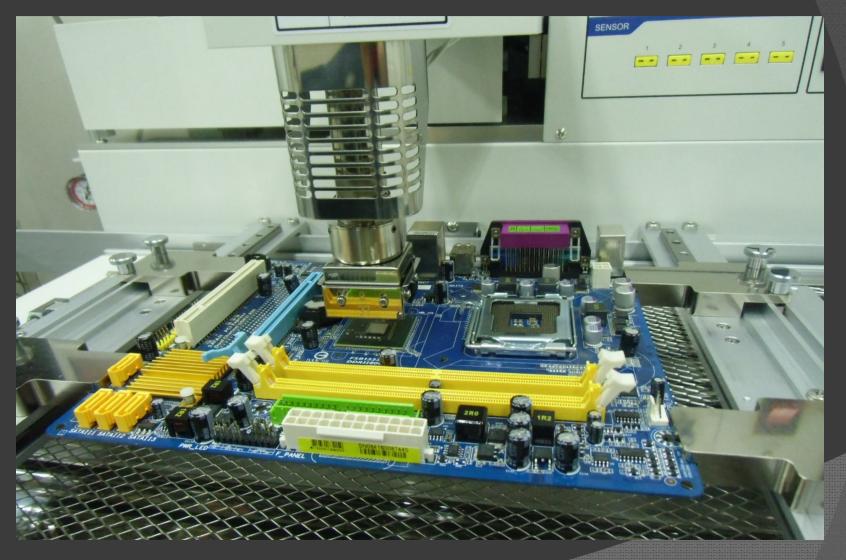
- 1. Linear Guide Rails
- 2. Heavier and Thick PCB work load
- 3. Thicker Heavier Design
- 4. Spring Loaded Underside Board Support movable with the PCB Holder







New Board Fixture and Support.







High-Performance All IN ONE

Rework Station for all type of SMT

Components for Eutectic and Lead Free Solders

Introduction:

RD500V Series for stable, safe rework of large or small boards and large or small sensitive components.

The RD-500V series is a semi-automated single motorized Z-axis placement and reflow station for all type of components rework. The machine uses a high 3-point heating system with an advanced computer control technology designed for safe lead free and eutectic rework application.

The RD-500V series 3 stage heating system provides 5.6kW overall thermal output for sufficient thermal capacity and control to execute precise profile on small to medium sized boards up to 500 x 700mm.

Each system comes complete with a trouble free controller <Internal Flash Memory Hard Drive>, no hard drive or separate computer is necessary.

Specification:

Full vision optics with a 2 mega pixel high-definition video camera and five separate thermocouple inputs make the Den-on RD-500V the ultimate solution. For safe, repeatable removal, alignment, placement, and soldering of BGAs, CSPs, ultra-fine-pitch QFPs, QFN, 01005 and other delicate components, heat-sensitive, and expensive SMDs. Huge heating and holding capacity area with ultra-sensitive Z-axis height-sensing controlled by optoelectronic switching allows a Z-Axis Closed Loop Motion Height Control accuracy about 1/10mm. A 6-zone rapid-IR under-heater with multiple reflow zones adds combined with the easy selecting mode profile library also contribute to performance that makes the RD-500V the most advanced rework system Den-on has ever offered.

New Key Features:

- Compact and Stable Design
- Powered Up Focal Top/Bottom Heater
- Powered Up New Technology Faster Response and Save Energy IR Heater
- Larger and Thick Board Heating Area and Handling Capacity Design
- 2 Mega Pixel Full HD Camera with a 19 Inch LCD Display For Easy Visual Alignment
- Adjustable Vision LEDs Illumination Intensity
- 5 Thermocouple Inputs For Real Time Temperature Profiling Control
- Printing, Dipping and Re-balling Solutions Made Easy
- Motorized Z-Axis Closed Loop Motion Height Control
- One Touch Lock Fixture Anti-Warpage Universal PCB Support
- Closed Loop Air Flow/ IR Control
- Operator/Engineer Inscription Mode Password Protected User Software Interface
- Friendly Ease of Use Software Adopting New Interface
- 3 Points Auto-Profile Mode
- Profile Library Easy Select Mode
- Multiple Reflow Zones Adds
- POP, Passive -Sensitive Resistors/ Capacitors 01005, 0201, QFN...etc...Capable
- N2 Capable
- Stable and easy profile data transfer from machine to another with the offset heaters reset software.
- Optional Side View Camera Provides Optical Inspection Of The Soldering/ Melting Process
- Optional Contactless Site Cleaning
- Optional Start and Go Diagnostic and Re-Calibration Software