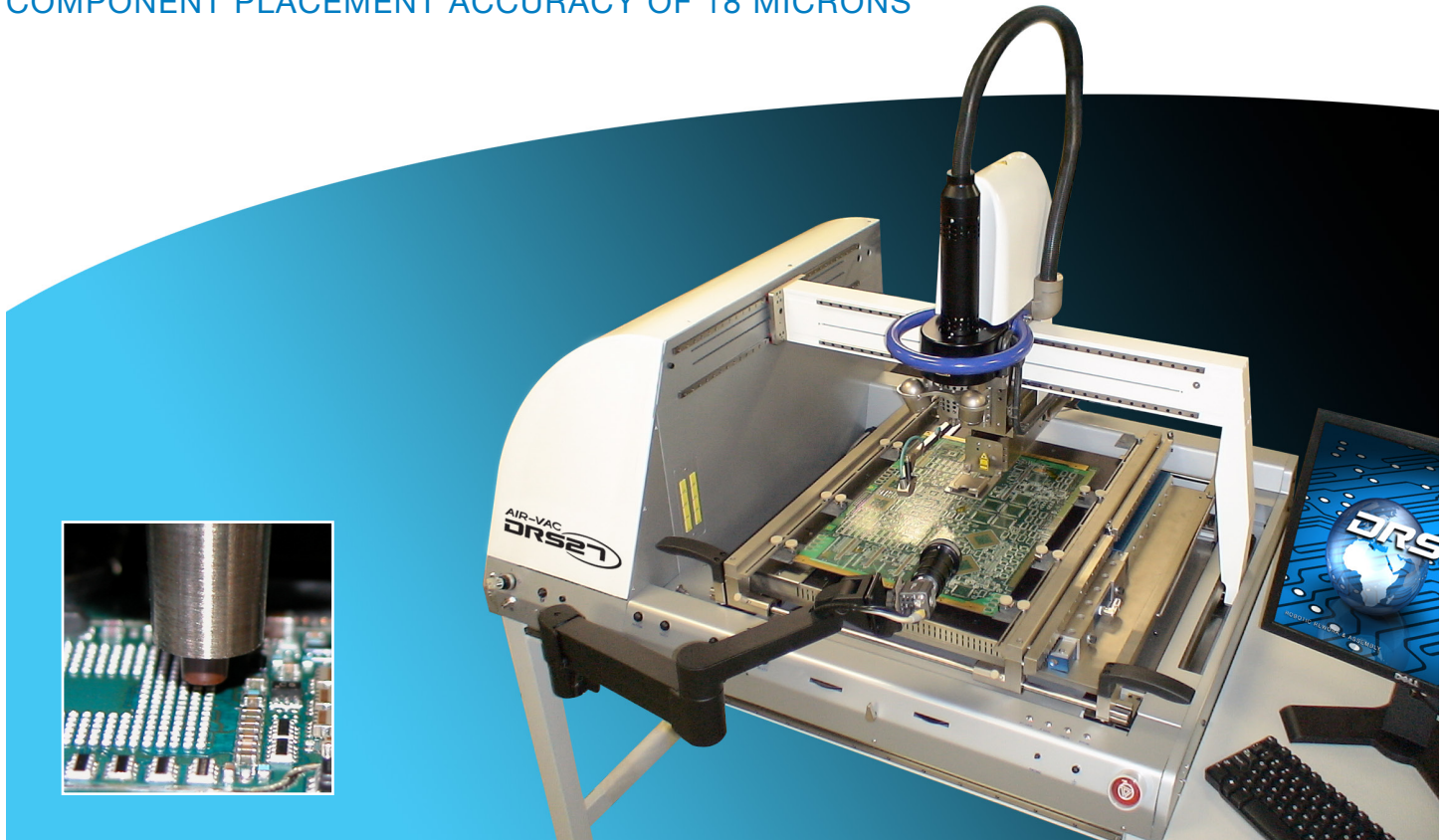


# DRS27



## Large Board BGA/SMT Rework with 70 to 125mm Vision Alignment

COMPONENT PLACEMENT ACCURACY OF 18 MICRONS



### High Efficiency IR Preheater

#### *Excellent Thermal Uniformity*

- Insulated heating elements/fast heat up (+/- 5°C).
- Black ceramic, high-emissivity coating for higher preheat temperatures.
- 3 or 6 zone preheaters (Models on back)

### Powerful & Repeatable Upper Heater

#### *Any Standard or Special Device/Material*

Heat is restricted to the solder joints on large connectors down to 01005 components.

### State-of-the-Art Vision System

#### *High Magnification, High Resolution*

Camera allows for extremely close-up viewing of all four corners plus center area of part.

### Consistent, Precision Vision Alignment

#### *Moveable X/Y Head & Fixed Board Locations*

Robotic head picks, aligns and places components with an 18 micron placement accuracy.

### Expandable Carrier

#### *Flexible Bottom-Side Clearance*

Carrier = 18" or 32"W x any D, up to 1.62" clearance.

### Automatic Component Pick and Place

#### *Motorized Z-Axis & Theta Rotation*

Programmable pick-up and adjustable force placement (20-2000 grams).

### Integrated Board Cooling System

#### *Programmable Cool Down*

Cool air injection flows directly to component.

### Site Cleaning Nozzles

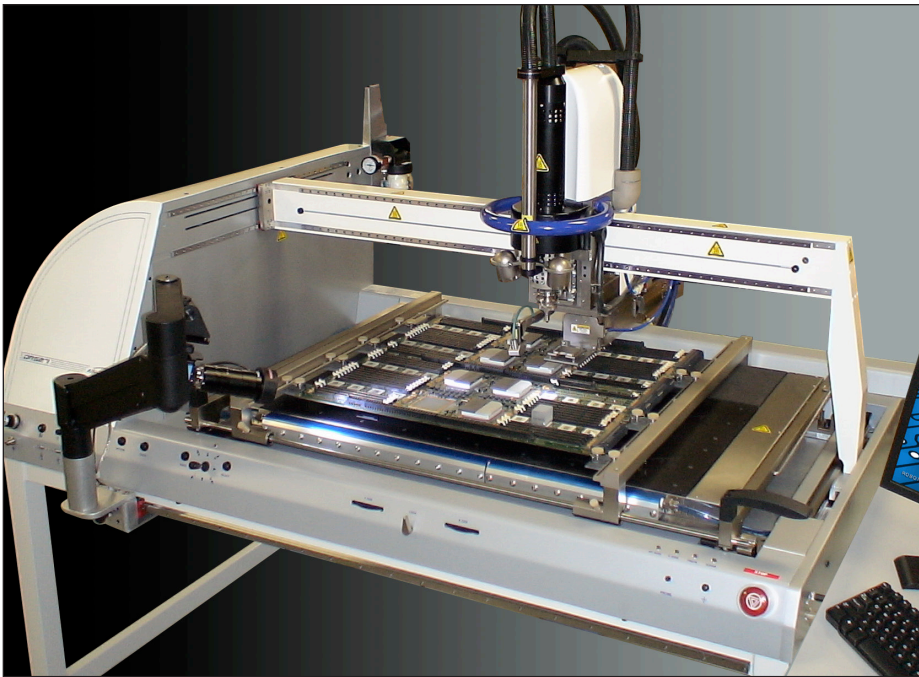
#### *Standard & Micro Sizes*

Remove residual solder without damaging pads or disturbing adjacent components.

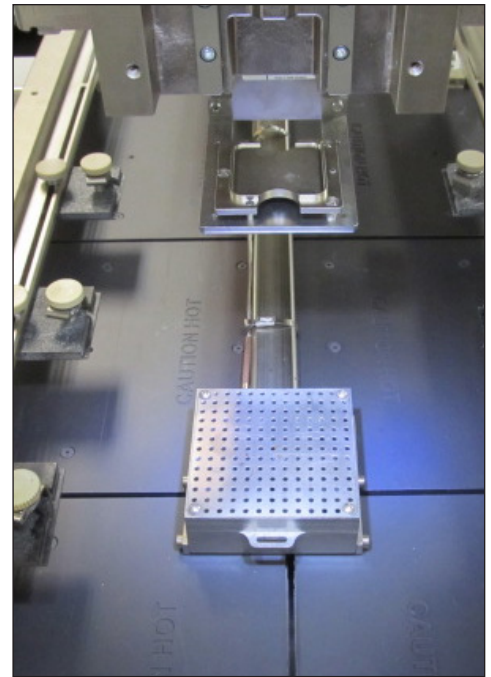
### User-Friendly Thermal Tutor Software

#### *On-The-Fly Adjustments*

Profile library and master thermal templates included.



DRS27T.6Z for High Mass and Extra Large Assemblies



Bottom Side Convective Spot Heater

#### DRS27 Models:

##### DRS27T.3Z (standard)

- 3-zone, 16" x 24" IR Preheater, 7,500 watts

##### DRS27T.6Z (extra large)

- 6-zone, 32" x 24" IR Preheater, 15,000 watts

#### DRS27 Models Include:

- High Efficiency IR Preheater
- 70mm Topside Clearance
- Programmable Board Cooling System
- 2000 Watt Top Heater
- Cool Air Injection (Nozzle)
- Motorized Z-Axis and Theta Control
- Multiple Field of View Vision (70mm)
- Thermocouple Channels
- Welded Steel Frame with Side Table
- Adjustable LED Lighting for PCB
- Thermal Tutor Software
- PC/Monitor/Keyboard/Mouse
- Tool Kit & Board Supports

#### DRS27 Specifications:

##### Dimensions:

- 67"W x 57"D x 72"H (DRS27T.3Z)
- 82"W x 57"D x 72"H (DRS27T.6Z)

##### Weight:

- 750 lbs., est. (DRS27T.3Z)
- 1,000 lbs., est. (DRS27T.6Z)

#### DRS27 Recommended Options:

- EZ Nozzle Package (14 Standard Component Nozzles)
- Pyrometer with Fine Spot Laser Pointer
- Site Cleaning System (Standard and Micro Nozzles)
- Universal Component Insertion Tool (6-47mm)
- Large Component Insertion Tool (6-100mm)
- Bottom Side Convection Spot Heater
- Direct View Camera with Slide Mount Track
- 125mm Vision System (70mm is standard)
- Spare Part Kit (Heater Element, Relay, Filters, Tubing)

Visit [air-vac-eng.com](http://air-vac-eng.com) for more detailed information and video demonstrations.



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