

*Comes with 5  
Free Nozzles!*



## TF2800

### BGA/SMD Rework Station

- **Rework Extra Large Boards with High Precision**

Incorporates unique patented heater technology and designed for board handling capability up to 24" x 24" (610mm x 610mm)

- **Powerful, Height Adjustable Bottom Heater**

An array of 7 IR emitters capable of preheating large, high mass assemblies, with height adjustment up to 1.5" (38mm).

- **High Definition Alignment System with Quad-Field Imaging**

Allows all four corners of the component to be viewed under HD magnification. Ideal for oversized BGAs or fine-pitch QFPs.

#### Patented Inductive-Convection Heating Technology



Inductive-Convection Heater pre-heats the air in a cyclonic fashion around the induction coil before it enters the inner chamber.

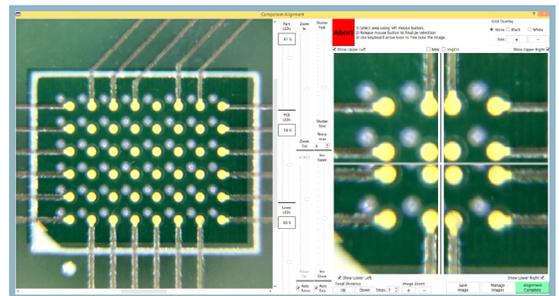
After entering the inner chamber, the pre-heated air is instantly heated to target temperature.



**High-Definition Vision  
Overlay System**



**Height Adjustable  
Bottom Heater**



**Automated Alignment System  
with Quad-Field Imaging**

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Leaders in the industry since 1958

# TF2800 Specifications

Part Numbers	8007-0582 (120 VAC Unit)	8007-0583 (230 VAC Unit)
<b>Power Requirements</b>	120 VAC, 50/60 Hz (2200 Watts maximum). Requires dedicated 20 A supply.	230 VAC, 50 Hz (2200 Watts maximum). Requires dedicated 10 A supply.
<b>Dimensions</b>	737mm (29") <b>H</b> x 1118mm (44") <b>W</b> x 965mm (38") <b>D</b>	
<b>Weight (Without Computer)</b>	90kg (200lbs)	
<b>Top-side Heater</b>	Inductive-Convection Heater, 300 Watts	
<b>Bottom-side Preheater with Adjustable Working Height</b>	Medium/Long wave IR, 1900 Watts; 405mm (16") x 405mm (16"); (1 x 1000 Watts & 6 x 150 Watts) Adjustable working height from lowest position up to 38mm (1.5") closer to the PCB	
<b>Active Cooling Capability</b>	Standard, offers swift, yet controlled component/PCB cooling, directly through the nozzle	
<b>High Sensitivity Vacuum Pick</b>	Pick is counterweight balanced, and utilizes an optical sensor and precision high temperature linear ball bearings, ensuring delicate placement and pick up of parts from PCB. Includes seven (7) Vacuum Picks	
<b>Precision Placement Capability</b>	Advanced professional placement system utilizing a stepper motor and position encoding provides smooth, precise movement, with no drift, allowing for repeatable and accurate placement.	
<b>Placement Accuracy</b>	Stepper motor with precision positioning of to 28µm (.0011") accuracy	
<b>Integrated Board Support Beam</b>	2 standard supports, 1 x support wand & 1 x fixed center height adjustment, prevents PCBs from sagging or warping during rework and is extremely adjustable to clear parts on bottom of PCB.	
<b>Temperature Setting Range</b>	<b>Top Heater:</b> 100° to 328° C (212° - 624° F); <b>Bottom Heater:</b> 100° to 221° C (212° - 430° F)	
<b>Precision PCB Holder</b>	Advanced table features micrometer X & Y adjustment, extruded board holder arms, spring loaded, with T-slots and movable clamps for both large and irregularly shaped boards with non-uniform edges	
<b>Maximum/Minimum PCB Size</b>	Maximum: 610mm x 610mm (24" x 24"); Minimum: N/A arms close down completely.	
<b>Maximum/Minimum Component Size</b>	Maximum: 65mm (2.5") x 65mm (2.5"); Minimum: 1mm Sq.	
<b>Thermocouple Inputs</b>	Four (4) thermocouple inputs insure accurate profile development and real-time monitoring (includes 2 K-type thermocouples)	
<b>High Definition Optical Alignment System</b>	Vision Overlay System (VOS) with High Definition (1080p) color camera, integrated frame grabber, dichroic beam-splitting prism, independently controlled LED illumination for component and PCB. Up to 240x zoom capability, with Stable Zoom and image stabilization. VOS does not require routine calibration. (Optical Alignment Kit included)	
<b>Motorized Optics Housing</b>	Automatically controlled, retractable optics housing protects Vision Overlay System from dirt and contamination	
<b>Quad-Field Imaging</b>	For oversized component alignment, allows up to four opposite corners of a large component (and its pads) to be viewed under higher magnification	
<b>Single Axis Operation</b>	All operations, including component pick-up, alignment, placement, reflow & active cooling are completed in a single axis, eliminating risk of component movement after placement and reflow.	
<b>Auxiliary Cooling Fan</b>	Standard	
<b>Software</b>	Intuitive, user-friendly, Windows-compatible software guides operators through profile development and execution; No cost upgrades on TF 2800 software	
<b>Computer System</b>	Windows 10 PC, with wireless mouse and keyboard	
<b>Video Monitor</b>	607mm (24") wide screen flat panel monitor (includes Monitor Arm Mounting Kit)	
<b>Video Inputs</b>	USB 3.0	
<b>Maximum Airflow</b>	Self contained pump, PC controlled, adjustable up to 30 SLPM	
<b>Nitrogen Capability</b>	Nitrogen soldering and cooling ready	
<b>Component Nests</b>	Two (2) removable and adjustable Component Nests provided for perfect centering of components, in preparation for vacuum pick-up/placement. Unique component holding system for parts under 5mm Sq.	
<b>Heat Focusing, Vented Nozzles</b>	5 nozzles included; over 90 nozzles available	
<b>Flux Application Plate</b>	Included; allows for automated flux dipping	
<b>Stencils/Solder Paste Application</b>	Over 145 stencil kits are optionally available (requires Universal Bracket Kit) and are integrated into the installation process	
<b>PV-65 Pik-Vac Vacuum Wand</b>	Included; provides a manual vacuum pick-up capability for handling SMDs, incorporates new 15 minute auto-off feature	
<b>Warranty</b>	One Year Limited Warranty	