

# exatron MODEL 802 TABLE TOP

VERSATILE, ECONOMICAL SINGLE SITE TEST HANDLER



- 1,000 UPH (units per hour) as shown.
- Two JEDEC trays.
- Handles all SMD and leaded device types from 1.6 x 1.6mm to 60 x 60mm\*  
\*requires additional hold down cylinder)
- Near zero mechanical adjustments or changeover kits.
- Bottom-side calibration camera ensures precise alignment.
- Servo motor-driven device placement.
- User-friendly Windows 10-based GUI.
- Designed and manufactured in the USA.

*Full test functionality  
in a powerful  
small package*



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## SPECIFICATIONS, FEATURES, AND OPTIONS

### Specifications:

<b>Size:</b>	63.5cm W x 71cm D x 55cm H (25" W x 28" D x 21.5" H) (excludes light pole) (With standard 24" gantry, 32" gantry optional)
<b>Power:</b>	120 VAC 60 Hz or 220 VAC 50/60 Hz, 2-3 A
<b>Air:</b>	5.5 bar (80 PSI) - 2 CFM clean, dry air
<b>Operational Temperature:</b>	13-32°C (55-90°F)
<b>Humidity:</b>	30-45% RH non-condensing (required for cold test)

### Positioning System:

<b>X-Y Drive System:</b>	Servo motor-driven lead screws
<b>X-Y Axis Resolution:</b>	0.1mm (0.003")
<b>X-Y Axis Max. Velocity:</b>	122cm/s (48"/s)  (High speed gantry optional)
<b>Z Plunger:</b>	Servo motor-driven lead screw
<b>Z Axis Resolution:</b>	+/- 0.1mm (0.003")
<b>Z Axis Repeatability:</b>	+/- 0.1mm (0.003")
<b>Theta Drive System (optional):</b>	Precision stepper motor
<b>Theta Axis Resolution:</b>	0.1°
<b>Theta Axis Repeatability:</b>	+/- 0.1mm (0.003")

### 802 Table Top Features:

<b>Device types:</b>	BGA, CSP, DIP, Flat Pack, LCC, LGA, MSOP, PCB, PGA, PLCC, QFP, SIMM, SIP, SIMM, SODIMM, SOIC, SSOIC, TSSOP, and custom.
<b>Test site:</b>	Single site standard. Dual sites available.
<b>Test sockets:</b>	Supports nearly all OEM test sockets; Exatron custom-built spring probe sockets; Exatron Particle Interconnect (PI) RF & CSP; and Exatron Copperhead thermal sockets (if thermal option).
<b>DUT board:</b>	8" clearance under board; up to 12" x 12" square with centered socket; many mounting options.
<b>Contact Force:</b>	20 lbs (max) standard, software controlled. Up to 100 lbs with optional hold down cylinder
<b>Test Interface:</b>	RS-232, Ethernet
<b>Jam rate:</b>	1/5000 when using Exatron test sockets.
<b>Tray:</b>	Fits all JEDEC tray; 2" and 4" waffle packs.
<b>Binning:</b>	Up to 8 sorts standard, output tray sort mapping; drop to bucket standard.
<b>Double part protection:</b>	Standard built-in vacuum sensor checks for empty socket at start of job and before each pick and place.
<b>Precisor:</b>	Mechanical precisor ready; built-in controls for many precisor options.
<b>Changeover:</b>	Nearly kit-less - change pick up tip (if needed) change test socket, load new trays, load previously set up JOB file. All mechanical changeover adjustments software-controlled.

### Options:

#### TEMPERATURE UPGRADES:

Single temp. test site (requires 32" gantry)  
(-75°C) -55°C to +155°C (+175°C) test capability.

#### VISION UPGRADES: (May require longer gantry)

Top-side 2D/1D scanner  
Bottom-side 2D and 3D lead inspection (requires table option)

#### TEST INTERFACE OPTIONS:

TTL/opto isolated  
GPIB

#### MEDIA UPGRADES: (May require longer gantry)

Small volume tube to tube  
Bucket output



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