

exatron MODEL 802 TABLETOP

BENCHTOP PICK & PLACE TEST HANDLER



- 1,000 UPH (units per hour) as shown.
- Two JEDEC trays.
- Handles all SMD and leaded device types from 1.6 x 1.6 mm to 25 x 25 mm* (Up to 60 x 60 mm special option. Contact Exatron for details.)
- Near zero mechanical adjustments or changeover kits.
- Bottom-side calibration assist camera ensures precise alignment. (Optional)
- Servo motor-driven device placement.
- User-friendly Windows 10-based GUI.
- Designed and manufactured in the USA.

*Pick & place testing
in a powerful
small package*



2842 Alello Drive, San Jose, CA 95111
1-800-EXA-TRON 1-408-629-7600 www.exatron.com

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SPECIFICATIONS, FEATURES, AND OPTIONS

Specifications:

| | |
|---------------------------------|--|
| Size: | 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) |
| Power: | 120 VAC 60 Hz / 220 VAC 50/60 Hz, 2-3 A |
| Air: | 5.5 bar (80 PSI) - 2 CFM clean, dry air |
| Operational Temperature: | 13-32°C (55-90°F) |
| Humidity: | 30-45% RH non-condensing (required for cold test) |

Positioning System:

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

802 Features:

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|--------------------------------|--|
| Device types: | BGA, CSP, DIP, Flat Pack, LCC, LGA, MSOP, PCB, PGA, PLCC, QFN, QFP, SIMM, SIP, SODIMM, SOIC, SSOIC, TSSOP, and custom. |
| Test site: | Single site standard. Dual sites available. |
| Test sockets: | Supports nearly all OEM test sockets; Exatron custom-built spring probe sockets; Exatron Particle Interconnect (PI) RF & CSP; and Exatron Copperhead thermal sockets |
| DUT board: | 8" clearance under board; up to 12" x 12" square with centered socket; many mounting options. |
| Contact Force: | 20 lb (max) standard, software controlled. Up to 100 lb with optional hold down cylinder |
| Test Interface: | RS-232, Ethernet, (GPIB & TTL optional) |
| Jam rate: | 1/5000 when using Exatron test sockets. |
| Tray: | Fits all JEDEC tray; 2" and 4" waffle packs. |
| Binning: | Up to 8 sorts standard, output tray sort mapping; drop to bucket standard. |
| Double part protection: | Standard built-in vacuum sensor checks for empty socket at start of job and before each pick and place. |
| Precisor: | Mechanical precisor ready; built-in controls for many precisor options. |
| Changeover: | 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)
(-80°C) -55°C to +155°C (+175°C) test capability.

VISION UPGRADES: (May require longer gantry)

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

BUILT-IN TABLE and TABLE LIFT UPGRADES:

The touch of a button lifts the leveling feet off the ground, allowing the handler to roll easily on its wheels.

MEDIA UPGRADES: (May require longer gantry)

Small volume tube to tube
Bucket output
Print and apply automated label application

TAPE AND REEL UPGRADES: (May require longer gantry)

Detaper input
Model 201/202 tape and reel input

CE MARK UPGRADED COVERS AVAILABLE



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