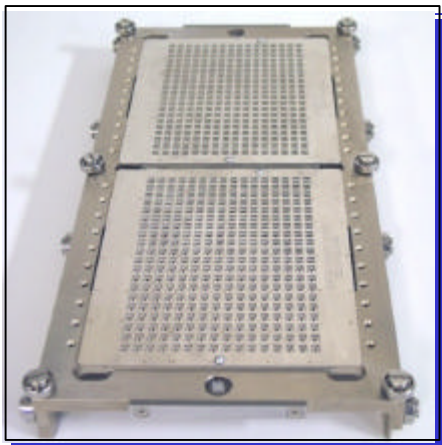




# DUAL W-5910iE QUARTZ CRYSTAL ETCHING SYSTEM

US PATENT 6,273,991 B1

- Quartz Crystal SMD devices are adjusted to target frequency by Ion Beam Etching of the electrode material
- The motional parameters of the crystal remain virtually unchanged
- Sixty four (64) parts are processed simultaneously for high system throughput
- Small crystal electrodes are as easy to precisely adjust as large electrodes
- Super High Drive capability
- Measured parameters are checked against easy to define Q.C. limits



Transport Boat

- Supports small SMD sizes including 3.2x5.0, 3.2x2.5, 2.5x2.0, 2.0x1.6, 1.6x1.25
- Transport boats carry SMD devices in 16x20 S&A flip pallets
- Dual boat configuration holds four pallets per run with a total of 1280 parts

## SPECIFICATIONS

**250B-1 Frequency Range:**

15 KHz to 220 MHz

**250C Frequency Range:**

15 KHz to 500 MHz

**Etching Performance:**

± 1 ppm typical final frequency

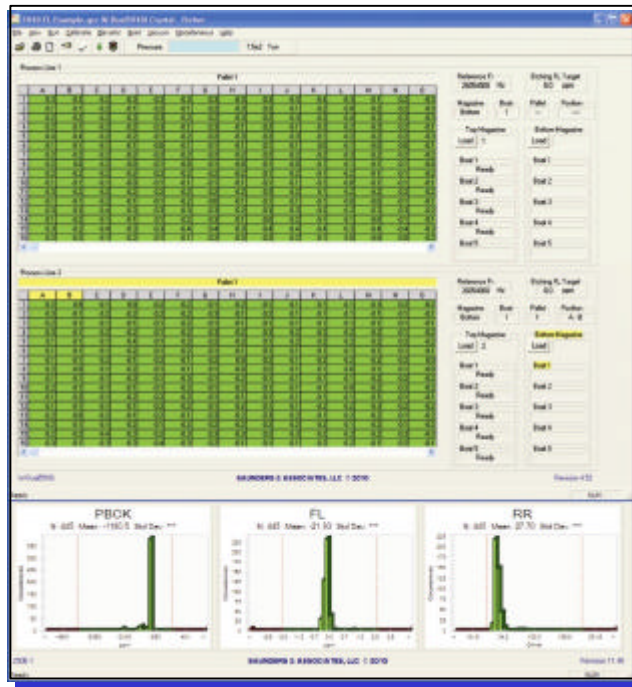
## SAUNDERS & ASSOCIATES, LLC

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## SYSTEM CONFIGURATION

- Four S&A 250B-1 or 250C Network Analyzers
- Direct Drive Roughing Pump
- Cryo Pump
- Two S&A Dual Channel High Drive Units
- Two S&A Ion Guns
- S&A 690B-X2 Elevator
- Computer
- *Windows*<sup>®</sup> based System Software
- Light Pole

## SCREEN FORMAT



## FACILITY REQUIREMENTS

- **Power:** 380VAC/208VAC  
3-Phase, 7KVA, 50/60 Hz
- **Inlet Pressure:** 90 - 100 PSIG
  - Air: 90 - 100 PSIG
  - Nitrogen: 70 - 100 PSIG
  - Process Gas: 20 PSIG
- **Dimensions:**
  - Standard: W 65" x D 37" x H 106"
  - With Elevator: W 65" x D 59" x H 106"

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