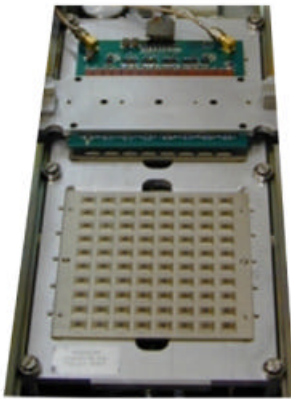




W-5910 QUARTZ CRYSTAL ETCHING SYSTEM

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
- Up to sixteen parts are processed simultaneously for high system throughput
- Small crystal electrodes are as easy to precisely adjust as large electrodes
- High Drive capability
- Measured parameters are checked against easy to define Q.C. limits



Transport Boat

- SMD devices are continuously loaded, unloaded and adjusted to frequency with optional Elevator System
- Two magazines each hold five transport boats
- Transport boats carry SMD devices in two S&A pallets
- Supports 8x10, 6x15 or custom pallets

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

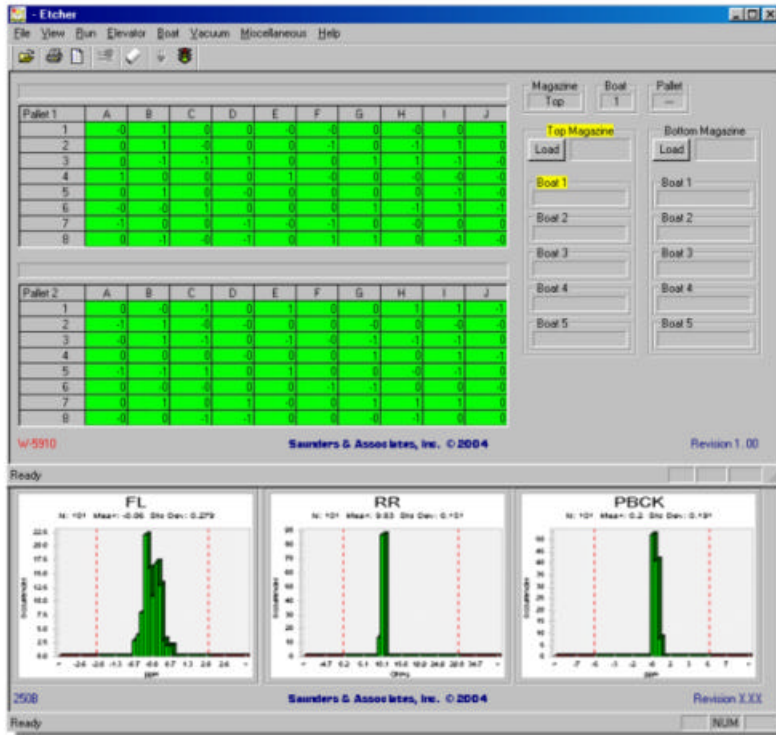
SAUNDERS & ASSOCIATES, INC.

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E-Mail sales@saunders-assoc.com - World Wide Web <http://www.saunders-assoc.com>

SYSTEM CONFIGURATION

- S&A 250B-1 or 250C Network Analyzer
- Direct Drive Roughing Pump
- Diffusion Pump (Cryo Pump Option)
- S&A 690 Elevator System (Optional)
- S&A Ion Gun
- Computer
- 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: W 53" x D 37" x H 88"

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