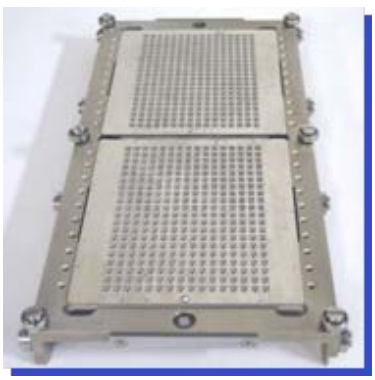
S&A

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**
- **Up to thirty-two (32) 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**
- **SMD devices are continuously loaded, unloaded and adjusted to frequency with optional elevator system**
- **Two magazines each hold 5 transport boats**



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 S&A flip pallets**
- **Many pallet matrix configurations available including 16x40, 8x60, 8x30**

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

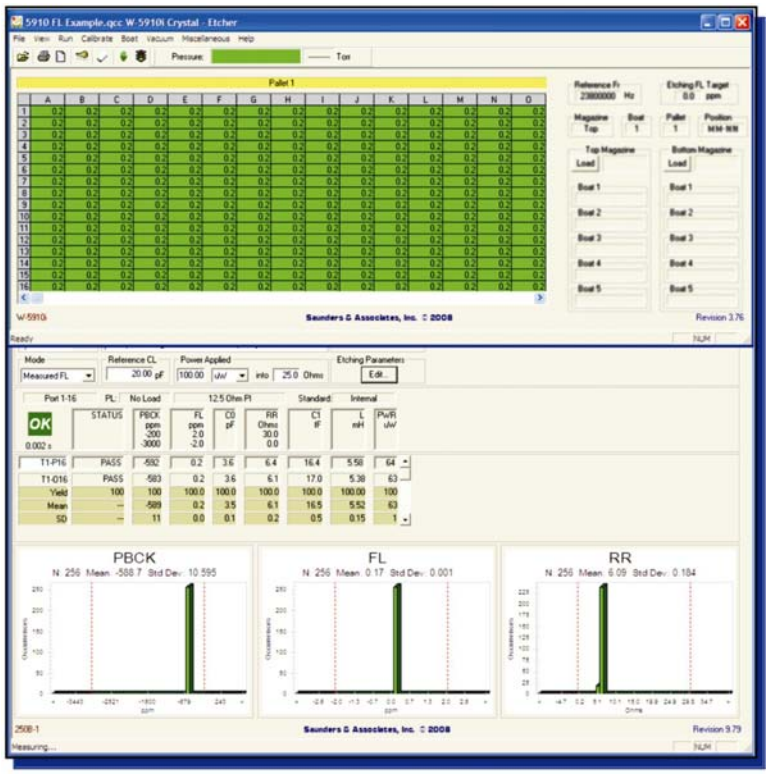
The Roditi International Corporation Ltd

Machiavelli House, 102 Stewarts Road, London SW8 4UG. Tel: +44 (0) 20 7819 8080
Fax: +44 (0) 20 7720 5261. e-mail: saunders@roditi.com www.roditi.com

SYSTEM CONFIGURATION

- Two S&A 250B-1 or 250C Network Analyzers
- Direct Drive Roughing Pump
- Cryo Pump
- S&A Dual Channel High Drive
- S&A Ion Gun
- S&A 690B Elevator System
- Computer
- *Windows* ® based System Software

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 59” x H 88”**

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