



SEIKA

PRODUCT LINE CARD

Seika Machinery, Inc. (SMI) is a subsidiary of Seika Corporation, Japan. SMI provides electronics manufacturers with advanced machinery, superior materials and engineering services.

WWW.SEIKAUSA.COM

SURFACE MOUNT TECHNOLOGY

EIGHTECH ENERGY-SAVING AND EASY MAINTENANCE REFLOW OVENS



NJ06M-82

- Precise and uniform temperature profile with air, N2 and vacuum models
- Energy savings due to ultra-low power consumption
- Highly-insulated oven design prevents excess heat loss
- Large capacity flux collection unit to reduce maintenance down-time
- Optimal cool down with air-cooling fin system
- High performance, quality built with competitive pricing

ANDES MULTIPOINT SOLDERING SYSTEM (SOLBOT-II)



SOLBOT-II

- Uses customized and dedicated fixtures/nozzles that eliminate the use of masking tape
- Lead-free compatible
- The number of components on the PCB does not affect tact time
- Able to control under the temperature range of $\pm 1^{\circ}\text{C}$
- User-friendly design
- Space saving design (desktop type)
540 x 720 x 250mm

SEITEC SELECTIVE SOLDERING SYSTEM



BRAVO STS-2533IN-SJ

Superior inline and offline selective soldering system solutions
Depending on the customer's needs, Seitec can build selective soldering and fluxing systems to cater to unique requirements with outstanding results

The newest inline model known as "Bravo" is a one-of-a-kind modular soldering system to accommodate severe tact time requirements. It uses a programmable solder wave and special precision nozzles for perfect soldering of leads and pads

Key features:

- * ± 1 degree temp control of solder
- * Optional camera to monitor solder flow height with automatic adjustment
- * Nitrogen temp control
- * Simple programming
- * Quick changeover



SAM-CT23NJ

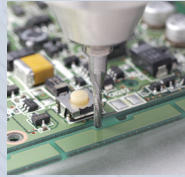
Low-stress depanelization

- Prevent product failure such as flex-crack of chip component and solder joint breakage

Router

Windows base user-friendly GUI operation

- Advanced image-processing software offers point-and-click programming router paths
- Easy to learn programming and simulation function for debugging
- QR code reading capability



SAM-CT23Q

Precise and clean depanelization for densely populated PCBs

- Repeatability $\pm 0.01\text{mm}$
- Automatic alignment by CCD camera
- Fixture-based highly efficient dust vacuum system



SAM-CT23W

Calibration free mechanism & low maintenance

- Simple and solid gantry mechanism does not require calibration
- Longer router bit life up to 5 times

PCB size (routing area size)

- 250mmx350mm(9.8"x13.8")~500mmx600mm(19.7"x23.6") NJ models
- 250mmx350mm(9.8"x13.8")~350mmx600mm(13.8"x23.6") Table top models
- 250mmx330mm(9.8"x13")~330mmx500mm(13"x20") SAM-CT23W



SAM-CT34SL

Dry Slicers

Safe & Accurate PCB Slicer

- Repeatability $\pm 0.03\text{mm}$
- Max cutting speed 300mm/sec
- Color touch panel operation
- PCB size 330mm x 400mm (13" x 15.7")
- Aluminum substrate depaneling (option)



New



SURFACE MOUNT TECHNOLOGY

DEN-ON INSTRUMENTS RD-500V/SV ALL-IN-ONE REWORK STATIONS



RD-500V

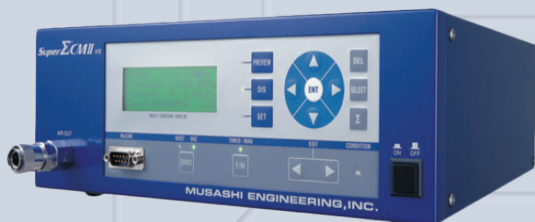
The ALL-IN-ONE advanced technology SMT rework station is compatible with multiple types of SMT components, including 01005s!

Key features:

- 2 Mega Pixel full HD camera
- 3-Point Auto-profile
- Highly accurate temperature control (sampling intervals of 0.1 sec)
- Powerful built-in 1000W heaters on both top and bottom side
- Area heater that includes six quick-heating 600W IR heaters
- Precise profiling w/detailed temp curves for up to 30 zones
- 500mm x 700mm (20" x 28") maximum board size

The system supports industrial large and small-scale circuit boards, including 01005 components. Additional features include two pressure sensors, contact-less cleaning, precision control of the Z-axis On-the-Fly profile programming and more

MUSASHI ENGINEERING: PRECISE DISPENSING SYSTEMS



SUPER Σ

Super Σ (Digital Controller)

- Easy programming and operation for automatic and manual modes
- Continuous dispensing with no stop gaps even at corners
- Precise, repeatable dispensing with no dripping
- Automatically calculates correct dispensing volume and pressure
- Automatically detects usage level of leftover dispensing liquid



AEROJET

AeroJet (Non-Contact Jet Dispenser System)

- Fast tact time due to no height adjustment required
- Maximum speed of up to 333 shots per second
- Precise jetting mechanism capable of super micro shot dispensing
- Capable of dispensing from side angles
- Able to dispense on to uneven surfaces with consistent time and quantity



AUTOMATIC TEST EQUIPMENT

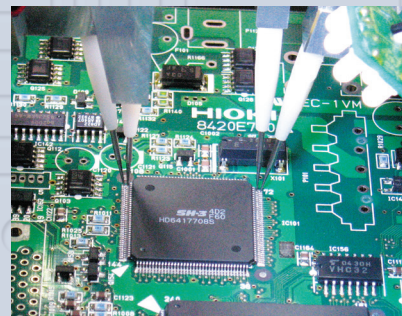
HIOKI FLYING PROBE & IN-CIRCUIT TESTERS



HIOKI FA 1240

HIOKI FA1240 Flying Probe Tester

- Industry leading inspection speeds at up to 40 steps/second
- Standard AOI functionality for component presence, polarity and displacement check
- Soft-landing probes to prevent component and board damage
- Solder Joint Integrity Test (SJIT) that detects insufficient solder joints
- Optional UA1780 FITLINE Gerber data based programming software (can automatically test BGA and other hidden inspection points)
- Optional laser based board warp compensation
- Accurate and repeatable probing on fine pitch components
- Robust and reliable build quality from Japan



HIOKI 1220

1220 Bed-of-Nails (BON) In-Circuit Tester

- High-speed and efficient in-circuit testing
- Automatic Test Generation (ATG) function
- Remote self-diagnostic feature
- Data stored in CSV format for off-line analysis
- Wide range measurement capabilities
- Compact, space-saving footprint
- User-friendly Windows® operation

PROCESS CONTROL

SPS SERIES PASTE MIXERS



SPS-2000 PASTE MIXER

- From refrigerator to screen printer in less than 15 minutes
- Automated operation for gentle softening, and even consistency
- Uses airtight containers preventing oxidation and humidity
- Models are available for single or dual solder paste jars (up to 1kg each), or dual cartridges (up to 2kg each)

VISCOMETERS



PC-10 VISCOMETER

- Help eliminate misprints due to incorrect paste conditions
- Patented spiral-pump sensor provides dynamic, quick, easy, repeatable measurements
- Satisfies international standards for paste viscosity measurement
- Data logging of viscosity and temperature data
- Models include hand-held, table-top, laboratory, and extra-small sample size versions

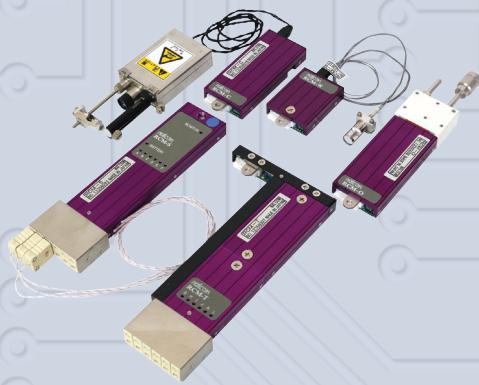
WETTING BALANCE TESTERS



SBW-2 WETTING TESTER

- Evaluate the wetting profiles of through-hole and SMT components, leads, solder and flux
- Simulate the temperature profiles of wave soldering machines, or SMT reflow ovens
- Conforms to international standards for wetting balance testing
- Log and compare the test results for easy analysis

REFLOW OVEN PROFILING & CAMERA SYSTEM



RCX MODULAR PROFILING SYSTEM

- Complete profiling of reflow oven, including oven temperature, O₂ concentration, and convection air velocity
- Verify ovens are performing at optimal conditions, and troubleshoot problem areas
- 6 and 12 channel reflow oven thermo-profiling
- O₂ concentration profile data for the entire Nitrogen oven
- Convection air velocity profile data for the entire oven
- Record video of a PCB as it travels through the oven. Focus on specific areas of concern to isolate problems occurring
- Display the profile data along with the O₂ concentration, air velocity, or camera image

REFLOW SIMULATORS



VDM-2 VIDEO CAPTURE SYSTEM

- True representation of a multi-zone reflow oven in a table-top form factor
- Top & bottom side heaters in conjunction with hot air convection
- Viewing windows allows you to monitor the process during reflow, and with the optional VDM-2 camera system, record video while overlaying time and temperature profile data
- The RDT-250C will allow for 330mm x 250mm PCB board, where the SRS-1C and SRS-2 allow for a 70mm x 70mm sample board or test piece
- The SRS-2 has the ability to measure the warpage of the sample during the reflow process using a laser scanner
- Reflow simulators can be run using an air or nitrogen environment



RDT-250C REFLOW SIMULATOR

PROCESS CONTROL

UNITECH PCB BOARD CLEANER



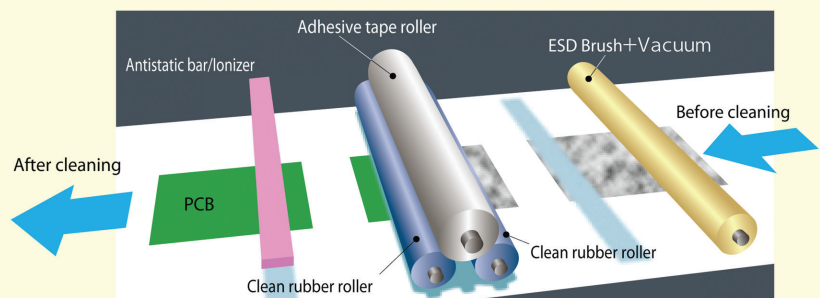
UC-250M-CV PCB CLEANER

- Three-stage PCB board cleaning system is the most effective way to remove dust & debris from the PCB surface
- The first stage is a brush & vacuum
- The second stage uses a dual rubber sticky roller system
- The third stage uses an ionized air blower for anti-static board preparation
- Select any combination of the cleaning stages to fit your needs
- * Larger & custom sizes are available

MODEL UC-250M-CV

Cleaning Surface	Top-Side
Cleaning Method	Silicone Rollers & Brush-Type
Rollers	2 Silicone 1 Adhesive Tape Roller
PCB Size	W: 50 ~ 250mm L: 75 ~ 330mm T: 0.5 ~ 2.0 mm
Conveyor Height	900 ±25 mm
PCB Flow Direction	R -> L -or- L -> R
Conveyor Fixed Side	Front -or- Rear
Conveyor Width Adjustment	Auto (optional)
Conveyor Speed	0 ~ 9 m/min
Ionizer	Internal w/ Air Blower
PCB Anti-Warp	Inside of conveyor
PCB Anti-Warp Adjustment	Manual
PCB Counter	0 ~ 9999, Warning Buzzer, Signal Tower
Power Supply	AC 100-120V 50/60Hz 300VA
Brush Unit	Rotating brush & Vacuum
Air Supply	0.5Mpa
Options	Auto Conveyor Width Adjustment 3 Color Signal Tower Custom Paint Large PCB System (400mm PCB width) XLarge PCB System (460mm PCB width) Upgraded Ionizer/Blower Anti-Static Silicone Rollers Top & Bottom Cleaning System

*Specifications subject to change without notice



QUALITY ASSURANCE

MCDRY ULTRA-LOW HUMIDITY STORAGE CABINETS



DXU-1001 1%RH MODEL

- Conforms to IPC/JEDEC J-STD 033 and ESD IEC-61340-5-1 Standards
- Dehumidifies ICs to prevent micro-cracking
- Alternative to baking, MBBs and nitrogen storage
- DXU models maintain 1%RH
- Powerful moisture absorbent never needs replacement
- Digital RH meter included
- ESD safe design
- Wide range of cabinets including UL/C models
- Optional chart recorder and data logger



McDry Feeder Cabinets



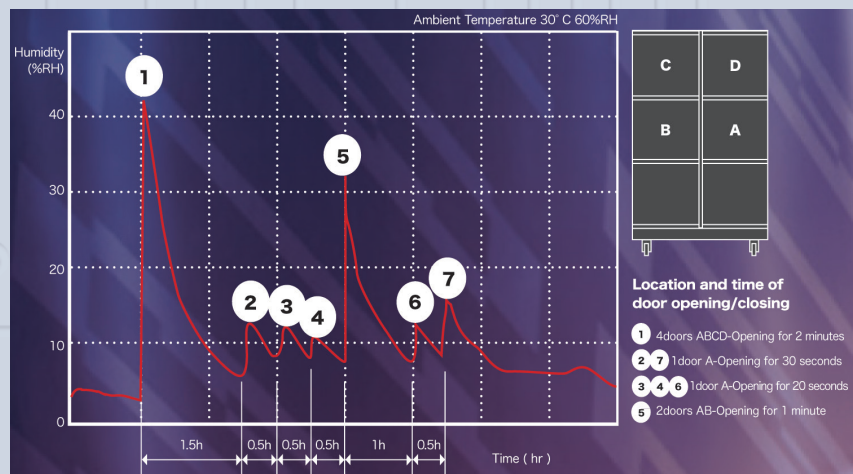
MB-301
Low-Temperature Baking Cabinet

MC-1001/MC-1002, 3%RH PCB STORAGE CABINETS

- Low-Cost, High-Performance
- Door opening/closing frequency: Once every 1-2 hours
- Compliant to ESD standard IEC-61340-5-1 and IPC 1601
- Can maintain an RH level of 3%RH



MC-1002 3%RH MODEL



QUALITY ASSURANCE

SAWA ULTRASONIC STENCIL CLEANERS / MISPRINT CLEANERS

Sawa Cleaners use direct contact ultrasonic energy to dislodge solder spheres from fine-pitch apertures

STENCIL CLEANER – HANDY TYPE SC-5000GUS & SC-500HE

- Low Solvent usage and running costs
- Fast cleaning time of 1-3 minutes
- Any type of cleaning solution can be used
- Minimal waste disposal
- Portable unit can be used directly on the screen printer



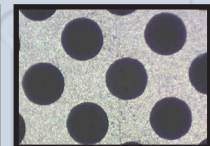
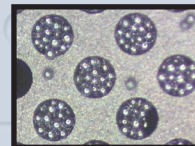
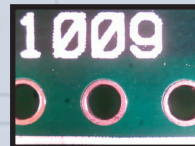
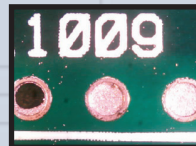
SC-5000GUS



SC-AH100F-LV

SAWA ECOBRID FULLY-AUTOMATIC STENCIL CLEANER SC-AH100F-LV

- Powerful cleaning with Low-VOC cleaning agent
- Fast cleaning and drying time
- No deterioration of stencil adhesive, not affected by usage of cleaning agent
- Low usage of cleaning solution and low-running cost
- Ease of operation & ergonomic stencil insertion
- Misprinted PCB cleaner can be connected



SAWA MOUNTER NOZZLE CLEANER SC-ENX ECO-NOZZLE



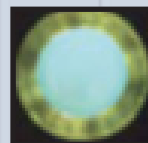
SC-ENX

- Ultrasonically-vibrated water thoroughly passed through every nozzle opening
- Double-cleaning power is generated with ultrasonic-energy cleaning and simultaneous vacuum suction
- Nozzle tips and apertures can be cleaned without leaving any residue
- Cleans using only filtered water!
- Can clean 20 nozzles at one time or more!

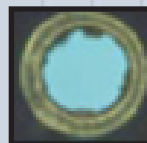
Before



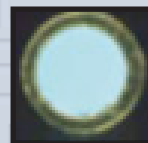
After 10 min. (Use purified water)



Before



After 5 min. (Use Sawa water)



GREEN TECHNOLOGY

SAWA ULTRASONIC WIPER ROLL CLEANER



SC-ER610FA

- Eliminates waste and saves money
- Re-use wiper rolls multiple times with stencil printer
- Standard length wiper rolls cleaned in approximately 30 minutes
- CO2 emission reduction by greatly reducing rolls being incinerated

MODEL: SC-ER610FA

Dimensions	851 x 1027 x 1100mm (33.5x40.43x43.3 inch)
Weight	150kg (330lbs)
Cleaning Capability	Material width..... 250-610mm (9.84-24 inch)
	Core width..... 250-610mm (9.84-24 inch)
	Inner Diameter..... ϕ 38mm (1.5inch)
Power	AC120V 50/60Hz 250VA
Ultrasonic Vibration	40kHz 150W
Air	0.5MPa 500NL/min
Exhaust Duct	ϕ 98mm, Exhaust Rate 5m/s

SOLDER PASTE RECYCLER



SEIKA SPR

- Converts both tin lead and lead-free solder into usable solder bar
- Reduces solder bar expenditures as a result of recovering waste
- A major decrease in disposal costs for factory waste by eliminating middle man
- Fully automatic operation
- Touch-screen panel
- Cycle time of 30-35 minutes
- Flexible heating and cooling temperatures
- Compact footprint
- Minimal maintenance

MODEL: Seika SPR

External Dimensions	29.5"(W) x 21.6"(D) x 57.5"(H)
Voltage	AC200V 3phase
Max Solder Capacity	5.5lbs Per Cycle
Recycling Efficiency	90-93%
Power Consumption	1.6KVA (max)
Exhaust Rate	9m3/min
Weight	331 lbs



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