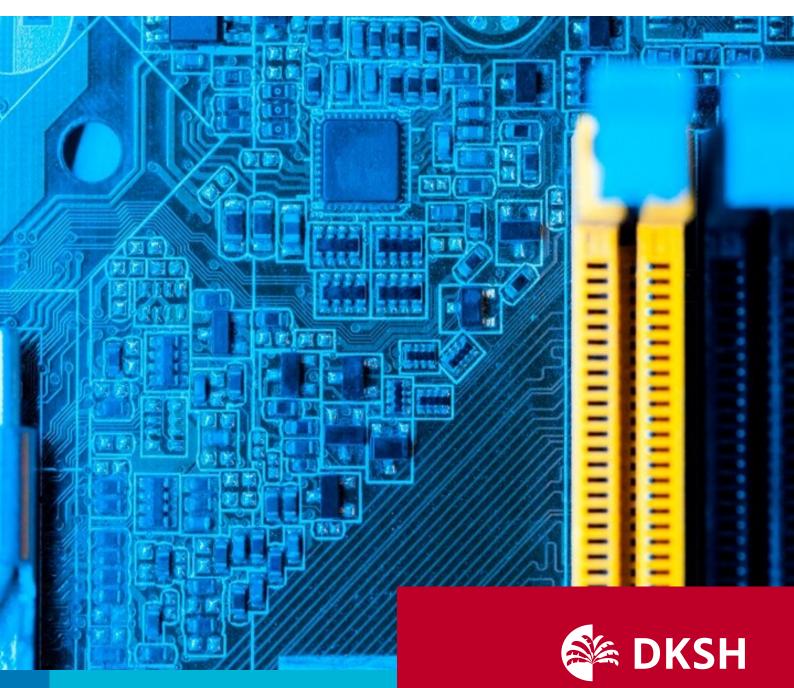
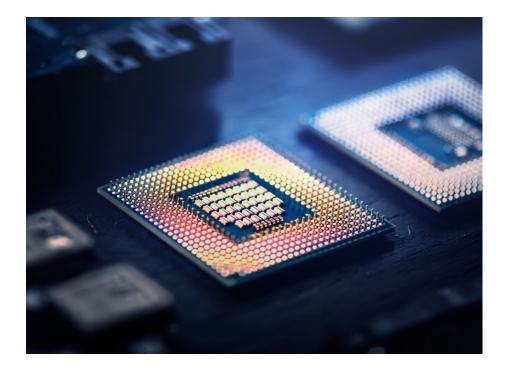
Technology

Product Catalog Semiconductor and Electronics



Delivering Growth – in Asia and Beyond.

We provide high quality tools and advanced process auxiliaries for the semiconductor and electronics industry to support the development of new processes and to drive innovation.



Our product

We offer a complete portfolio of production equipment, characterization equipment and consumables to help you solve complex challenges

Characterization

Discover a range of characterization equipment such as optical inspection of patterned and non-patterned wafers, solar cell test systems and panel test systems.

Consumables

Discover a range of consumables such as ceramics, vacuum and electrostatic chuck, chuck refurbishment, heating systems, wafer carrier, solder paste, plating and etching chemicals and solder for bumping applications.

Production Equipment

Discover a range of production equipment, products and solutions for semiconductor, LED, solar applications for Measurement such as film adhesion testing, systems for wafer, PVD systems, PECVD systems, dispensing systems, bonding systems and micro material processing.



We are a full service provider for applications in front-end processes, back-end processes, ingot and wafer manufacturing, solar cell manufacturing, module manufacturing, thin-film manufacturing, touch panels, LED and micro-electronics.

Our engineers provide expertise to help you increase throughput, raise yield and reduce cost of ownership while establishing optimized and reliable processes.

Our solutions

We provide you with solutions in following categories

Photovoltaic

Discover a range of production equipment, products and solutions for the photovoltaic industry.

Semiconductor

Discover a range of production equipment, products and solutions for the semiconductor industry.

Electronics

Discover a range of production equipment, products and solutions for the electronics industry.



VJE Rework and X-ray System Screen Printer Hanwha SMT Equipment Reflow Oven GETECH Router (Depanel) ECD Thermal Profiler Automatic Optical Inspection & X-ray PBT Cleaning System Precision Cleaning Solution Nutek Handling Equipment EPM Wave Soldering System AccuAssembly Storage Solution PCBA First Article Inspection





General Industry

Resistance Spot Welding Hot Bar Bonding/ Reflow Soldering/ ACF Bondin Weld Checker & Monitoring System Accessories and Others WeldHead Laser Welding/ Laser Cutting Systems Hermetics Sealing Systems Glovebox Systems AIM Solder Material COOL CLEAN Heraeus (FUSION) UV Curing System Nordosn EFD EIT Radiometer Products TECH-SONIC Ultrasonic Metal Welding MIDAS Microelectronics Rework System EFFIMAT Storage System PBA Masking

Semiconductor Equipment

VJE Rework System





Summit 1800i

Semi-Automatic Rework System

The Summit 1800i is the latest in the popular Summit series. Carrying forward the leading heating capacity, throughput, repeatability, and reliability of the Summit 1800, the Summit 1800i offers added performance and flexibility.

Redesigned component placement provides improved performance for micro passive devices and connectors. With up to 80mm Feild of View, the Summit 1800i meets rework need for today and many years to come.

Key Features

- Placement Accuracy 0.005" (12µ)
- Top Heater 1.6 kw Convection
- 2.2 kw Top Heater Boost
- Bottom Heater 4.0 kW Convection
- Optional 7.8 kW Bottom Heater
- Maximum Board
- Standard 18 x 22" (455 x 560 mm)
- Optional 22 x 30" (560 x 760 mm)

I					
	SUMMIT LXI	SUMMIT 2200i	SUMMIT 1800i	SUMMIT 750i	SRT Micra
Model					Stat Micra Control Control
Component Range	~1mm to ~200mm		00804 to ~200mm		
Max. FOV	80mm	65mm (Op	tion 80nmm)	50mm	35mm
Placement Capability	0.0010" (25u) mean + 3σ	0.0005" (12	u) mean + 3σ	0.0020" (50u) mean + 3σ	0.0005" (12u) mean + 3σ
Top Heater	2.2kW Focused Convection Top Heater	1.6kW High Performance Forced Convection Top Heater With 2.2kW Boots Heat Mode		1.6kW High Performance Focused Convection Top Heater	1.5Kw Forced Focused Convection Top Heater
Bottom Heater	8.0kW Convection Bottom Area Heater (Optional 10kW)	4.0kw Convection Bottom Area Reater (Optional 7.0kw)		4.0kW Convection Bottom Area Heater	800W Convection Bottom Site Heater Opitonal 2.4kW)
Local Bottom Heater		1.0kW Convection Bottom Site Heater with 2x2" Mini-Plenum			NA
Board Handling	24 x 36" (600x 900mm) 26 x 48" (650 x 1200mm)- Optional	18 x 22" (455 x 560mm)		18 x 20" (455 x 560mm)	12 x 14" (300 x 350mm)

SCAVENGER



Scavenger – Non-contect Solder Removal – provides a safe and effective means to prepare rework sites for component replacement.









VJE Reels Counter & X Ray System



XQuikIII with AccuCount Technology

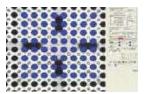


AccuCount Key Features

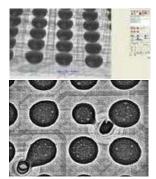
- Automatically "counts" components as small as 01005
- Counts 7" to 15" reels
- One button operation
- Reduce cycle times
- Optional barcode printing
- · Connect to MES for seamless inventory control
- Substantially speed up part counting process
- >99% part count accuracy

Next Generation Affordable X-ray Inspection VJ Electronix leads the way in providing rebusts and practical X-ray solutions to solve real production issues. Innovation and simplicity govern system design to maximize ease-of-use with programmed inspection and simple 1-2-Go! user interface.

Vertex II X-ray systems are production ready, offering superior uptime and unmatched value. The Vertex Series is configurable to match a variety of applications with off-axis imaging and a variety of available X-ray sources, detectors and product manipulators.



Mask Software - allows automated measurement of two sided PCB



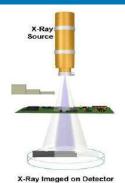
Automated Defect Enhancement (ADE) - making subtle feature easy to find



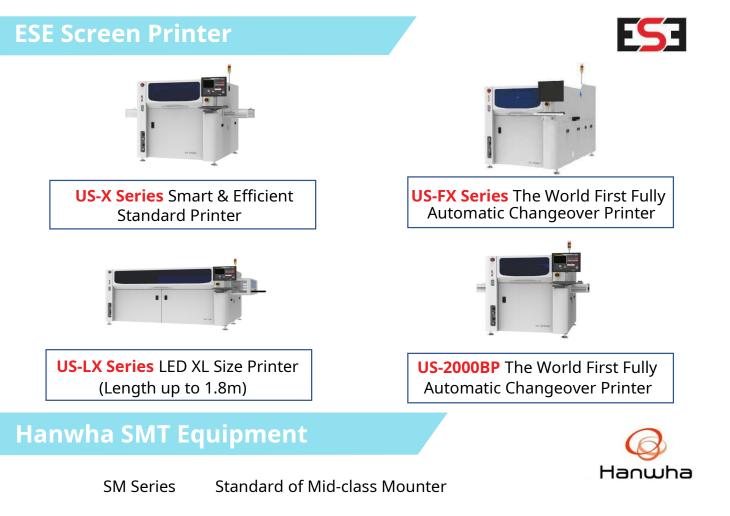
Part Library Template



Common Config



80kV 90kV 130kV 160kV 30µ 4μ 5µ 0.5mm >20lp/mm >40lp/mm >40lp/mm 200 **-** 400µ 435X 3600X 1950X 1X - 20X 3.4′ 3.4″ 3.4″ 8 - 16inches (87.9mm) (87.9mm) (87.9mm) (200-400mm) Application +/- 45° +/- 45° +/- 45 Dependent 20.0 x 20.7" (508 x 525mm) 18.0" x 20.4" (457 x 518mm) - with ergonomic pull out drawer option





Specifications	SM471 Plus	SM481 Plus	SM482 Plus
Speed	78,000 (Optimum)	40,000 (Optimum)	30,000 (Optimum)
	2 Gantries x 10	1 Gantry x 10	1 Gantry x 6 spindles/Head
Structure	spindles/Head	spindles/Head	
Comp Dange	0402 ~ 14mm,	0402 42mm 110 15mm	0603 ~ 55mm, L75mm H12
Comp. Range	H12mm	0402 ~ 42mm, H10-15mm	15mm
		460(L) x 400(W)(Standard)	460(L) x 400(W) (Standard)
	L510xW460 (Standard)	510(L) x 460(W) (Option)	510(L) x 460(W) (Option)
PCB Size	L610xW460 (Option)	610(L) x 510(W) (Option)	610(L) x 510(W) (Option)
		1,500(L) x 460(W) (Option)	1,200(L) x 510(W) (Option)

SM485P Wide Ranged Component Placer





Modular High-Speed Mounter

HM520 Series

- Modular Pick and Place Equipment Series
 - High-speed Modular Chip Mounter equipped with Rotary placement head.
 - Speed: 80,000 CPH (Optimum)
 - Spindle/Gantry: 2 Gantry x 20 or 6 Spindle/Gantry
 Accuracy: ±25µm @ CpK ≥1.0 (Chips)
 - Accuracy: <u>+</u>25µm @ CpK ≥1.0 (Chip <u>+</u>30µm @ CpK ≥1.0 (ICs)
 - PCB Size: 510mm x 580mm (Single lane) 510mm x 310mm (Dual lane) Max. 750mm x 580; 750mm x 310mm



SFM3 Flip Chip Mounter Series

- 2 Spindles/Head * 2 Gantry
- Speed: 10.0k UPH (Optimum)
- Accuracy: +<u>5</u>μm @ 3δ
- Die Size: 0.5 ~ 32mm
- Die Thickness: Min. 40µm
- Wafer Size: Up to 12"
- Substrate Size:
 - 330(L) x 330(W)mm (1 Conveyor)
 - 330(L) x 166(W)mm (2 Conveyor)
- Dimension: 1,681(W) x 1,460(D) x 1,430(H)mm
 - C2W, FOWLP

TSM Reflow Oven

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I MAR AND A MARKED IN CALL OF A DE LA DECEMBER A DE LA DECEMBERAA DE LA DECEMBERAA



AIR REFLOW

NITROGEN REFLOW

SUCTION REFLOW FOR SEMICONDUCTOR



GETECH Router (Depanel)



PCB Inline Routers

Getech's comprehensive range of in-line depaneling systems includes solutions for medium and high volume de-paneling, pre-routing, sawing and total EOL solutions. All machines are configurable, with a range of options including multiple X,Y,Z gripper fixtures, fixed or multiple axis tables, single or dual head spindles.



RBM - Router with Bording Handling

The RBM - a twin station, fully automated de-paneling system designed to deliver unrivalled performance in speed, accuracy and through put, offering:

- Twin station, single or dual spindle
- Pin or gripper fixtures for routing and post route off loading
 Auto tool change

Panels are located into the RBM on a regular edge bell conveyor, and placed securely into fixture ready for routing. An X/Y/Z gripper will secure and unload the individual PCBs and place onto tray/convey/or other EoL equipment.

GBR - Getech Bottom Router

IDM-Inline Dicing Machine

The Getech Bottom Router (GBR) has been designed to meet the needs of CEMs and OEMs having a wide variety of PCBs and multiple change-overs per day or shift. With a top Gantry Robotic hand for holding the individual PCBs, the machine cuts from the bottom making the system effectively able to work with Fixtures, High Speed with High Flexibility and Getech Precision

Thd IDM is a single station sawing machine, designed to deliver unrivalled stress free performance in speed and accuracy. A precision rotary table filled with a precision gripper fixture, post router and pre route board handling, plus an array software locals to enhance the performance of routing cycle, makes the IDM ideal for panels such as memory modules, where fully automated high throughput is a must.



GAR - Getech Automatic Router

GAR is an inline router machine operating two worktables continuous operation. Each table can accomodate a maximum PCB size of 350mm x 310mm. The GAR includes a dual PnP head for loading PCB's post depanaling. A new Graphical User Interface (GUI) with Getech's "Move, Teach & Cut" advanced control software provides user friendly "visual" programming for rapid and accurate online programming.

PCB Stand-alone Routers

Getech's range of stand-alone (offline) routers is suited for Low through High volume production, flexible table configurations and programming accomodate high-mix production and offers exceptional fast product set-ups and changeovers. A comprehensive range of options includes fiducial correction, Barcode scanning and integrated communication with factory information systems.



GSR2280

GSR228 is included in Getech's new range of Routing Machines. Operating revised motion control the GSR2280 is the fastest depanaling machine available today delivering dust free finished individual PCBs with a dual vacuum system and 3 stage filtration system.

The GSR2280 features a maximum panel size of 550mm x 585mm [21.5" x 23"] on each of its twin tables, Top clamp featuringand a new Graphical User Interface (GUI) with Getech's "Move, Teach & Cut" advanced control software provides user friendly "visual" programming for rapid and accurate online programming.

GSR 1200/1280/1290 & GSS 1200

Maximum performance is achieved through use of advanced precision manipulators on all axis. Options available include train or single table, vacuum or conventional fixtures and rotary saw, single or dual head spindles.

Features

- High acceleration/deceleration speeds
- Powerful Servo motors powered Z axis with power of brake
- Large range of panel size from 350mm x 350mm up to 910mm x 510mm with integrated top clamping provides exceptionally rigid retention of the PCB during singulation.





ORION is the new generation standalone router, specially designed as a low-cost solution for stress free depaneling of printed circuit boards assemblies.



Router Machine Features, Specifications and Options

		AUTON		SEMI AUTOMATIC ROUTERS							
	RBM 3600		GAR 1200	ORION	GSR 1200	GSR 1280	GSR 1280E	GSR 1290	GSR 1300	GSR 1380	GSR 2280
CONFIGURATION											
Vacuum System Number of Work Tables	Top Dual	Bottom Single	Top Dual	Top Single	Top Dual	Top Dual	Top Single	Top Single	Bottom Dual	Bottom Dual	Top Dual
Max panel Size WxD (cm)	32 x 25	40 x 50	35 x 31	50 x 45	35 x 35	50 x 50	61 x 61	91 x 61	35 x 35	50 x 50	55 x 58
150w Hybrid Bearing Spindle ³	na	na	Option	na	Standard	Option	Option	Option	Standard	Option	Option
250w Hybrid Bearing Spindle ⁴	na	na	Option	Standard	Option						
		Standard		na	Option	Standard	Standard	Standard	Option	Standard	Standard
Dual Spindle (only 250w Spindle) MACHINE STANDARDS	Option	na	na	na	GSR1200D	GSR1280D	GSR1280ED	GSR1290D	GSR1300D	GSR1380D	GSR2280D
CE Certification	Option	Option	Option		Quatian	Option	Option	Option	Option	0	Quiting
FIXTURES	Option	Option	Option	na	Option						
Fixture Type ¹	D,G	None	D.G	D,U	D,U,V,G	D,U,V,G	D,U,V,G	D,U,V,G	D,U,V,G	D,U,V,G	D.U.V.G
SOFTWARE FEATURES	-,-		-/-	270	<i>D/0/1/0</i>	<i>D</i> /0/1/0	2/0/1/0	<i>B</i> /0/1/0	<i>D/0/1/0</i>	2/0/1/0	<i>2,0,1,0</i>
		Standard Standard Option		Standard Standard Option							
Independent Table Program Bar Code Program Verification/ Interface	Option Option	na Option	Standard Option	Standard Option	Standard Option	Standard Option	Standard Option	Standard Option	Standard Option	Standard Option	Standard Option
Edge Vision Alignment	na	na	New	New	New	New	New	New	na	na	New
OPTIONS											
MES/ FIS Integration Air Ionizer Fan	New Option	New Option	New Option	New Option	New Option	New Option	New Option	New Option	New Option	New Option	New Option
Tank System	Standard	Option	Option	Option	Option	Option	Option	Option	Option	Option	Standard
Automatic Tool Bit Change	Standard Option	Standard Option	Option Option	Option na							
Intelligent Fixturing	na	na	Option	Option	Option	Option	Option	Option	Option	Option	Option
Vacuum Pressure Sensor Safety Light Curtain Sensor	Option na	Option na	Option na	Option Option							
Tool Height (Length) Check Module Ionizer Air Nozzle (Table)	Option na	Option na	na Option	na na	Option Option						
Stripper or Ramp Mechanism Automatic Top Clamps	na na	na na	na Standard	na	Option Option						

Notes:

Fixture Type¹

D = Dedicated

U = Universal

- G = Gripper
- V = Vacuum

150 W Spindle³ [Type 4025] maximum PCB thickness is 3 mm 250 W Spindle⁴ [Type 4033] maximum PCB thickness is 8 mm 500 W Spindle⁵ [Type 4041] maximum PCB thickness is 8 mm Advance Edit² software features:

- 1. Camera Assisted Teaching
- 2. Matrix Programming (Pallet/Array)

NCE 196

3. Manual Transformation (Easy Conversion)

ECD Thermal Profiling



SuperM.O.L.E.[®] **Gold 2** 6 Channel Thermal Profiler Smartest Profiler on the Planet

Spindle Types







V-M.O.L.E.® 3 Channel Thermal Profiler The 1st True Profiling Innovation in Years!



MEGAM.O.L.E.® 20 20 Channel Thermal Profiler Advanced Profiling for High-Reliability, High-Value PCBs



Reflow Rider / OvenCHECKER® Reflow Process Verification... Made Easy!



Automatic Optical Inspection & X-ray

Application





Technical Specification

		Placement and solder joint inspection (reflow and wave soldering)
hnology:		
	Positioning unit	Synchronous linear motor
Ort ogona	al camera module 8M (white LE	EDs)
_	Field of view	57.6 mm x 43.5 mm (2.3" x 1.7")
	Resolution	23.5 μm (standard), 11.75 μm (high) switchable with OnDemandHR
	Number of megapixel cameras	4
Angular vi	ew camera module 8M (white I	LEDs)
	Resolution	16.1 μm (standard), 8 μm (high) switchable with OnDemandHR
	Number of megapixel cameras	4, 8 (optional)
	PCB dimensions	508 mm x 508 mm (20" x 20") (L x W)
	PCB support	Optional
	Transport height	850 - 950 mm ± 20 mm (33.5" - 37.4" ± 0.8")
	Width adjustment	Automatic
	Transport concept	Single track transport
	PCB clamping	Pneumatic
	Upper transport clearance	35 mm (1.4"), 50 mm (2") (optional)
	Lower transport clearance	50 mm (2") (standard), up to 85 mm (3.4") (optional), 40 mm (1,6") with PCB support
	Ort [®] ogona	Positioning unit Ort ogonal camera module 8M (white LI Field of view Resolution Number of megapixel cameras Angular view camera module 8M (white Resolution Number of megapixel cameras PCB support Transport height Width adjustment Transport concept PCB clamping Upper transport clearance



Extended Lifted Lead Detection Fast program creation with either vVision

High-speed inspection of fine-pitch components

or EasyPro

Full color evaluation

with OnDemandHR function

Integrated Verification ensures a zero defect escape rate

Extremely high throughput due to FastFlow Handling

X8011 - II PCB

Brilliant quality, optimized processes











THTs under angled radiation

QFP orthogonal radiation

QFN orthogonal radiation

BGA under angled radiation

Technical Specification

X8011**-II** PCB eco

X8011-II PCB plus

X8011-II PCB plus

ciniology						
	X-ray tube	Sealed direct beam transmission tube (c	tube or open microfocus optionally also TXD X-ray	us ay tube, < 1.5 μm)		
	High voltage	10 - 130 kV / 10 - 160	0 kV / 10 - 200 kV			
	X-ray current	50 - 300 µA / 5 - 100	0 μΑ			
	Target power	max. 20 W / max. 40	W	max. 40 W		
	Geometric magnification	max. 35 times / max	. 2650 times	max. 2650 times		
	lmage converter Diagonal	High resolution 7.3" FPD, 14 bit		High resolution° 11" FPD, 14 bit		
	Proven resolution (at 90 kV/80 μA)	< 16 - 50 μm / < 4 μm		< 4 µm		
	Detector swivel range Additionally via the rotation and tilt axis +/- 45° (90°)	0°	0 - 60°	0 - 60°		
	X-ray cabinet					
handling						
2						

Manipulator	X-Y-Z	X-Y-Z plus rotation module
Max. table travel range	Horizontal x/y-axis	: 460 mm x 435 mm (18.1" x 17.1")
	Vertical z-axis: 290	mm (11.4")
Max. rotation module travel range	-	Horizontal x/y-axis: 350 mm x 430 mm (13.8" x 16.9") Vertical z-axis: 290 mm (11.4")
		n x 360°
Max. sample weight	10 kg (22 lbs) (with	rotation module, 5 kg/11 lbs)
Sample change	Manual or motorize	ed window opening
Optional additional axes available	Yes	

PBT Cleaning System

SUPERSWASH / TWINGO / HYPERSWASH

DIRECT RAY AGAINST SURFACE TECHNOLOGY

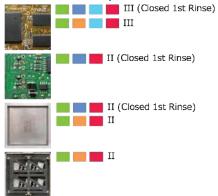


APPLICATION

- Universal cleaning solution (PCBA, misprint, stencil in one system)
- Designed to clean difficult Hi-density PCBA, with low standoff components
- HDI, DCB, BGA, hybrids, PoP, SiP, etc.
- High throughput & low process cost stencil cleaning
- Excellent PUMP PRINT[®] stencil cleaning

pbt

Recommended Super SWASH version:





HYPERSWASH

- Defluxing-removing all kind of solder residues
- Highly populated electronic assemblies with low standoff components such as BGA, CSP, BTC, QFN, MELF

Spray cleaning with water based agent

- Tap water semi closed loop rinsing
- Closed loop for 1st Rinse (DI water)
- Closed loop for 2nd Rinse (DI water)
- Pressed heated air drying

CompaCLEAN HIGH PRESSURE SPRAY-IN-AIR CLEANING SYSTEM



APPLICATION

- Defluxing, removing activators and resin residues
- Cleaning contamination from handling and board manufacturing
- Cleaning second side misprints on complex assemblies
- Cleaning before conformal coating
- Cleaning of soldering pallets
- Fine degreasing of mechanical parts

Recommended COMPACLEAN version:



Spray cleaning with water based agent
 Tap water semi closed loop rinsing
 Closed loop for 1st Rinse (DI water)
 Closed loop for 2nd Rinse (DI water)
 Pressed heated air drying

MINISWASH

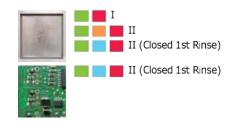
AUTOMATIC CLEANING SYSTEM FOR STENCILS AND PCB



APPLICATION

- Price-effective & reliable stencil cleaning
- Effective also for PUMP PRINT[®] stencil
- Available for PCBA cleaning
- Very competitive price/ performance level!

Recommended version:



Spray cleaning with water based agent

Tap water semi closed loop rinsing

- Closed loop for 1st Rinse (DI water)
- Pressed heated air drying

Cleaning Machines Overview

	SuperSWASH Single /SuperSWASH Twingo*	CompaCLEAN	HyperSWASH	MiniSWASH
Usable space of chamber: WxLxH (mm) (W-left/right, L-front/rear, H- height) Including fixture and clamping	835x80/150x816/ 2x835x50x740*	480x500x500	3x890x170x850 Or 2x890x60x850 Or 890x215x850	820x80x740
PCBA, HDI, DCB, BGA, PoP, SiP, CSP, BTC, QFN, MELF hyrids, etc.	√ √	√	√	√
Eurocards pcs/cycle (100x 160mm)	20/ 40*	140	112/168	20
Cycle time/min	20-40	30-60	20-40	20-40
Metal & plastic stencil (paste, glue)	√ √	X	x	\checkmark
Stencils/pcs/cycle	1/ 2*	X	X	1
Cycle time/min	7-10	Х	x	10-15
Cleaning agent volume (RtU)	66 I	80	80	70
Max temperature clean/rinse/dry	60°C/40°C/110°C*	60°C/40°C/11 0°C	60°C/40°C/110°C	60°C/40°C/90°C
Machine dimensions WxLxH (mm) (W-left/right, L-front/rear, H- height)	1700x1300- 1500x1735	940x1700x214 0	1900x1400x1960	1600x800x1200 (I, II) 1600x1400x1200 (optional 1600) (III)
Weight w/o liquid	520-630 kg	455-485 kg	1000kg	220-450 kg

Percision Cleaning Solution



Perfect SMD cleaning

- SMD stencils
- Misprinted PCBs
- Soldering frames and condensate traps
- Soldering enquipment
- Stencil undersides
- Board cleaners







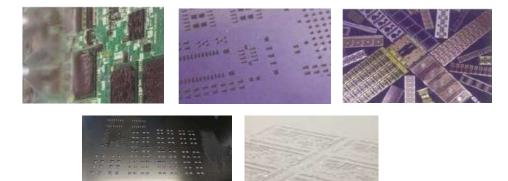




Cleaning Solution Overview

Cubatystee	Contomination		Cleaning Media (Non DG)				
Substrates	Contamination	Solvent Based	Water-Based	eter-Based Aqueous Alkaline Based			
PCBA/Semiconductor Defluxing	Flux Residues	Etimol DFX80 CA*	-	-			
Stencils	Solder Paste SMT Adhesives		Etimol SW25RAN Etimol SW 20 CN*				
Dispensing Needles	SMT Adhesives	Etimol NC 88 RSN	-	-			
Misprint Boards	Solder Paste MT Adhesives	_	Etimol SW25RAN Etimol SW 20 CN*	Etimol SW26RAA Etimol SW 21 CA*			
Solder Pallets / Ovens / Condensation Traps	Baked on Fluxes	-	-	Etimol SEM 10RAA Etimol SEM 11 RAA Etimol PC 55 CA *			
Conformal Coating Frames	Silicone lacquers Acrylate/Urethane lacquers	Etimol CR 65 RS Etimol CR 66 RSA	-	-			

* Concentrated Version - to be mixed with DI water



Nutek Handling Equipment

BARCODE LABELLING CELL SERIES 3



LASER MARKING CELL SERIES 5



Features

- Integrated 600dpi Brady printer
- ZebraDesigner 2 user licence
- Label placement programmable in 1° step
 Vacuum sensing of label from pick-up to placement
- Scanner for value verification after printing
- PCB side clamping
- Model No. : NTM5710-X
- Machine Dimension(L x W x H): 850 x 1680 x 1440 mm
- Weight(Approximately) 750 kg

Description This unit is used to print, pick and apply labels onto bare PCB or on top of components. Minimum Label Size 5 x 5 mm Cycle Time 2.5 seconds per label (Print/Sacn/Pick & Place) ≤ 5 seconds (Load, unload & shuttle doors) Conveyor Speed 24 m/min. 65 - 460 mm PCB Width PCB Length 80 - 460 mm 100, 230VAC 1Ph **Power Source Power Consumption**

Features

- 10 Watt CO₂(Class 4)
- Class 1 laser protected housing
- Air cooling system
- Fume extraction device
- PCB side clamping
- Integrated inverting unit for double-sided marking (Optional)
- Barcode scanner or camera for readability check (Optional)
- Machine Dimension(L x W x H): 850 x 1558 x 1752 mm
- Weight(Approximately) 640 kg

SPECIFICATIONS

Description	This unit is used to mark text, barcode, 2D code & graphic onto PCBs.
Marking Area	350 x 350 mm total coverage
Cell Size	≥ 0.195mm
Laser Wave Length	10.63 μm
Conveyor Speed	24 m/min.
PCB transfer time	≤ 5 seconds
PCB Width	65 - 460 mm
PCB Length	80 - 508 mm
Power Source	100, 230VAC 1Ph
Power Consumption	1600VA max.
Air Pressure	5 bar
Air Consumption	20 ltr/min. max.





Automatic Loader & Unloader

- Sturdy and stable design
- User friendly 'soft touch' LED membrane control panel
- Pneumatic clamps provided for magazine alignment
- Pneumatic pusher's pressure regulated
- High throughput with short magazine
- change-over time
- SMEMA compatible

Description

This unit is used for loading or unloading of PCBs.



Telescopic Gate Conveyor

- User friendly 'soft touch' LED membrane control panel
- Passage way 'Normally Closed' (745 mm)
- Swift and smooth retraction/extension of conveyor (frequency inverter controller) Additional built-in buffer zone
- Safety sensor installed to enhance safety Smooth and parallel width adjustment (leadscrew)
- SMEMA compatible

Description

This unit is used when a passage way is required in a production line (fully automatic).



Multi Function Buffer Stocker

- User friendly 'soft touch' LED membrane control panel • First In First Out (FIFO), Last In First Out (LIFO), loader, unloader, reject stock and pass through operating modes
- Fast, smooth and precise indexing (frequency inverter controller) •
- Pneumatic clamps provided for magazine alignment
- Pneumatic pusher's pressure regulated ٠
- Threshold system provided •
- Additional magazines buffering capacity available upon requestSMEMA compatible

SMD machines or testers.





Tranverser / Shuttle Conveyor

- Surrounded with covers to provide highest level of safety
- User friendly 'soft touch' LED membrane control panel
- Swift, smooth and precise operations (frequency inverter controller)
- PCB traffic flows can be customised
- Smooth and parallel width adjustment
- SMEMA compatible

Description

This unit is used to redirect flow of PCBs into different channels in a production line.



Wafer Loader

- adjustment for various wafer types
- and wafer loading
- or magazine
- SMEMA compatible

Description

This unit is used for loading of 8" & 12" wafer



High Speed Mini Loader

- Applicable to various substrates, leadframes or carriers
- 'Servo control' lifting motion
- High speed and precise indexing
- Machine size depends on the type of magazine used
- Stores up to 10 different types of magazine dimensions
- Stainless steel magazine guide
- Pneumatic pusher's pressure regulated
- Easy loading or unloading of magazines
- User friendly touch screen panel
- SMEMA compatible

PCB Width

Description

This unit is used for loading of substrates, leadframes or carriers.

PCB Length

Advanced Platform

- Touch screen panel enables swift (8" & 12")
- Servo motor drive for precise indexing
- Vacuum suction provide better grips of wafer while loading from wafer cassette
- Slot detection feature



EPM Wave Soldering System



Economy SIG - The soldering machine for small series



CIG compact SIG (N2) – The full nitrogen soldering machine for medium size series



Premium SIG - The soldering machine for medium size series



CIG highspeed SIG (N2) – The full nitrogen soldering machine for high volume series



AccuAssembly Component Tower





AccuStock 8000 SMD Reel Automatic Storage and Retrieval System

	AccuStock 8000
Max. Capacity	8,000
Reel Diameter	7,10,13,15 inches (180,255,330,380 mm)
Max Input capacity 1	7 inch dia x 60
Max. Input capacity 1	13 inch dia x 60
May Input capacity 2	7 inch dia x 120
Max. Input capacity 2	13 inch dia x 30
Max. Reel Height	44 mm (additional thickness upon request)
Cycle Input/Output	15 seconds in/out
Cycle Input/Output	7.5 seconds in/out Simultaneous
	Silo 2,500 kg.
Weight	in/out unit 1,250 kg
	Total 6,250 kg
Power Requirement	220-240 VAC 3 phase
Air Requirement	80 psi
Footprint	5.33 m x 2.23 m (0.6 m in width for I/O unit)
Height	2.82 m
Software Requirement	SQL server
Network	Required

PCBA First Article Inspection



Model	X3000	X-4000
Max PCB size:	380 X 450 (mm)	500 X 540 (mm)
Max component height:	50 (mm)	50 (mm)
Image resolution:	1100 DPI	1100 DPI

66 Extra Eye for FAI

First Article Inspection (FAI) is one of the most important steps of the PCB assembly process as every mistake from the Placement. Machine setup multiplies into hundreds of incorrectly assembled PCBs if left unchecked. Therefore, it is extremely important to accomplish FAI with maximum accuracy.





ATN Automatic Soldering System





induction Soldering



Iron Tips Soldering



Dispenser





Laser Soldering

Light Beam Soldering

Leading Plasma Innovation



TRAK Series Plasma - Inline or built-in handler

FlexTRAK SHS

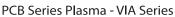
FlexTRAK[™]-CD





AP Series Plasma - Batch





ROIIVIATM

Metrology System

SOLARIUS



11

SPHERE Series Plasma - Wafer level and 3D packaging application

StratoSPHERE[™] Up to 12"



AP Series Plasma - Batch



Semiconductor Printed Circuit Boards

- Life Science
- Photovoltaic/ Solar
- LED
- Hard Disk Drives
- Industrial

Nordson Progeny



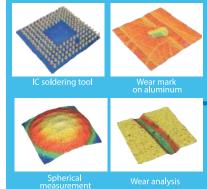
SOLARIUS^{**}

- Application Include: • Thick Film
- IC -Packaging
- Engineering Surfaces
- Tribology
- Metal
- Plastic
- Rubber



SOLARIUS 3D non-contact surface measurement

An ECONOMICAL 3D surface profilometer meets wide VARIETY OF SURFACE inspection needs



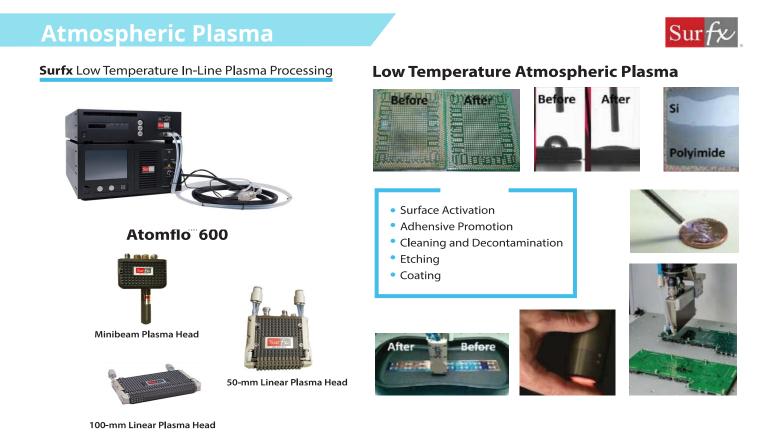


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MesoSPHERE[™]



SEO Contact Angle And Surface Tension Analyzer



SE

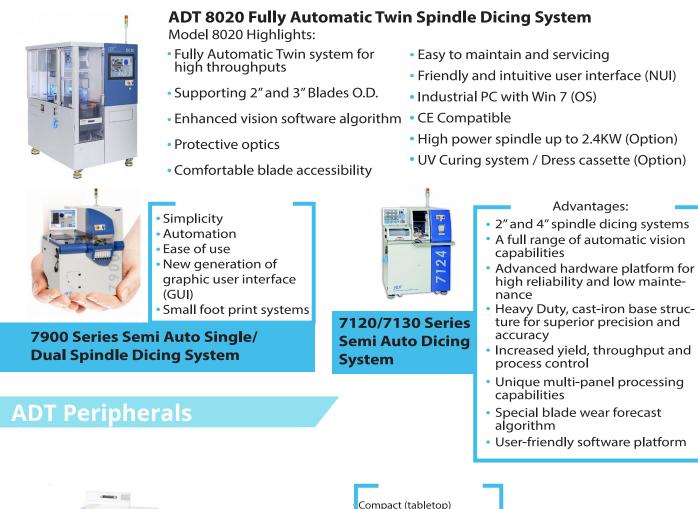
东虹鑫

DOHONE

Specializing in storage series products and other metal products



Technologies



ADT Dicing Machine



ATV – Thermal Processing







RV Diamond Scriber

Precision diamond scriber for manual scribing with 8"- \emptyset , vacuum, chuck, fine adjustable in X-and \emptyset - digital gauge for X resolution 10 μ m, cross hair microscope lined up with the scribe trace to use it as a reference for further scribes. max. scribe length 220 mm, max. X travel 190 mm.

For fast and easy scribing of ceramics, glass, silicon, GaAs, InP and many more



LTCC SINTERING PRESS

PHP-630

 Features Data PHP-630

 Low Power consumption 4kW @ 1000°C

 Zero % LTCC X/Y shrinkage

 Heating Rate: < 70min. to 1000°C (empty chamber)</td>

 Cooling Rate: < 90min. from 1000°C to 100°C (empty chamber)</td>

 Control range:

 • 250°C - 1 100°C, under vacuum up to max. 1 000°C

 • Accuracy < ±0,5°C > 350°C

Pressure up to 50kN

AMADA Resistance Spot Welding





DC29/UB29/UB29A Linear DC Welding Controls

Dual pulse with independent control of current, voltage or power on each pulse

Squeeze, upslope 1, weld 1, downslope 1, cool, upslope 2, weld 2, downslope 2, hold

Save up to 99 different weld schedules, protected from unauthorized changes Allows automatic linking of weld schedule sequence

TECHNICAL SPECIFICATIONS

TYPICAL APPLICATIONS =



Air bag detonator module (squib wire)



Battery tab to lithium ion cell

MODEL NUMBER		DC29	UB29	UB29A
Nominal line volta	ges (single phase)	88-264 VAC 47-63 Hz	88-264 VAC 47-63 Hz	88-264 VAC 47-63 Hz
Repitition rate		2000 A @ 1 weld/sec for 10ms	500 A @ 3 weld/sec for 10ms	1500 A @ 1 weld/sec for 10ms
Setting ranges:	Current Voltage Power	200 A - 4000 A 10 amp/step 0.1 V - 9.9 V 10 mV/step 0.1 kW - 25.0 kW 10 Watt/step	5A - 500A 1 amp/step 0.01 V - 9.9 V 10 mV/step 0.05 kW - 4.99 kW 10 Watt/step	15A - 1500A 1 amp/step 0.01 V - 9.9 V 10 mV/step 0.1 kW - 9.9 kW 10 Watt/step
PEAK:	Current Voltage Power	4000 A 10 V 25.0 kW	500 A 10 V 4.9 kW	1500 A 10 V 9.9 kW



HF27 / HF25 High Frequency Welding Control

Dual pulse with independent control of current, voltage, power or combo mode (HF27) on each pulse.

Squeeze, upslope 1, weld 1, downslope 1, cool, upslope 2, weld 2, downslope 2, hold.

Save up to 100 different weld schedules, protected from unauthorized changes.

Independent monitor of current, voltage, power, and resistance on each pulse. Envelope, time limits and energy monitor (HF27).

Back-lit LCD displays programmed and actual weld current, voltage or power, upper and lower limits, and resistance.

switch assembly

TYPICAL APPLICATIONS =

Model Number	HF25/240	HF25/400	HF25/480	HF27/240	HF27/400	HF27/480
Nominal line voltage (3 phase)	240 VAC	400 VAC	480 VAC	240 VAC	400 VAC	480 VAC
Line voltage range (VAC)	192 to 264	320 to 440	384 to 528	192 to 264	320 to 440	384 to 528
Input circuit rating (perphase)	25 A	20 A	13 A	25 A	20 A	13 A
Input KVA @ 3% duty cycle		30 KVA				
Output KW @ max. demand		12 KW				
Output transformer voltage @ max. rated output current		5.2 V				
Open circuit max. output voltage @ normal lie		11.5 V				
Setting ranges		Current - 100 A to 2400 A; Voltage - 0.2 to 10V; Power - 50 W to 10 kW				
Output current		2400 A @ 3% duty cycle				
Output feedback response time (current, voltage, power)		40 Microseconds				
Output regulation versus line voltage variance		2%				
Output regulation versus load resistance variance		2%				
Output repeability current, voltage, power \pm of setting		2%				

TECHNICAL SPECIFICATIONS



HF2, HF2S High Frequency Inverter Welders

2 KHz pulse width modulated (PWM) inverter welding control with constant current, voltage or power feedback operating modes. Feedback response every 250 microseconds.



TECHNICAL SPECIFICATIONS

Three phase, 208, 230, 380 or 460 VAC ±13%, 50/60 Hz						
HF2/208-50 A: HF2/230-50A; HF2/380-30 A; HF2/460-30 A						
0.05 - 4 .0 kA						
0.10 - 9.99 kW						
0.1 - 5.0 V						
2000 milliseconds (maximum)						
MER MODEL X3/4000A X3/4/380A X3/4/460A X9/6000A X11/4000A X11/4/460						
	208/240	400	480	208/240	208/240	400/480
			HF2/208-50 / X3/4000A X3/4/380A	HF2/208-50 A: HF2/230-50A; HF2/3 0.05 - 4.0 kA 0.10 - 9.99 kV 0.1 - 5.0 V 2000 milliseconds (m X3/4000A X3/4/380A X3/4/460A	HF2/208-50 A: HF2/230-50A; HF2/380-30 A; HF2/460-30 0.05 - 4.0 kA 0.10 - 9.99 kW 0.1 - 5.0 V 2000 milliseconds (maximum) X3/4000A X3/4/380A X3/4/460A X9/6000A	HF2/208-50 A: HF2/230-50A; HF2/380-30 A; HF2/460-30 A 0.05 - 4.0 kA 0.10 - 9.99 kW 0.1 - 5.0 V 2000 milliseconds (maximum) X3/4000A X3/4/380A X3/4/460A X9/6000A X11/4000A

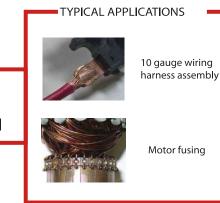


125/300/1000ADP Capacitive Discharge Welders

- Built-in current monitor
- Set pulse limits
- Four pulse widths with fast rise times
- Programmable, automatic polarity switching
- Upslope function
- Quick view color screen



STA Series Single Phase AC Spot Weld Control





High Power Mid Frequency Inverter Welding Power Supplies

High power mid frequency inverter spot welding power supplies. Closed loop technology.

- Inverter Spot Welder IS-300A
- Mid-Frequency Inverter Weld Controls IS-800CR / IS-1400CR



Hot Bar Bonding/Reflow Soldering/ ACF Bonding

Fully integrated, standard hot-bar systems utilize pulsed heat thermode technology for hot bar reflow soldering, bonding, and heat staking applications Hot-Bar Reflow Soldering & Heat Staking Systems - newhorizon ACF Bonding and Heat Staking Systems - newhorizon Desktop Hot-Bar Bonding Systems - DT Series Hot Bar Bonding LCD Repair Station - Emerald Series

ACF laminating and ACF bonding systems create robust electrical conductive adhesive bonds between flexible and rigid circuit boards, glass panel displays, and flex foils with very fine pitch (<30 micron) newhorizon ACF Laminating/Pre-Bonding System ACF Laminating/Pre-Bonding System

Weld Checker & Monitoring System



Accessories and Others

Desktop Weld Monitors

Desktop weld monitors for resistance spot welding

- Color Digital Weld Monitor for Resistance
 Spot Welding MG3
- High Precision Weld Checker MM-122A
 Machine-Mountable Portable Weld Monitor - MM-370A
- Advanced Data Analysis Monitor for Resistance Spot Welding - ADAM



Handheld Weld Checkers

Handheld, portable weld monitors for resistance spot welding

- Portable Weld Checker MM-315B
- Electronic Force Gauge MM-601A



TCW

Thermocouple Welder

- Argon Gas Weld Chamber
- Easy to Use
- Designed to Operate Either in a Production or Laboratory Environment
- Weld Fire Lockout
- Line Voltage Regulator
- Wire Gauge Selection from 38 AWG to 20 AWG



Micro TIG Welding



Electrodes, Handpieces & Cables

- THP Tweezer Weld Handpiece
- PHP Probe Handpiece
- GHP Gun Handpiece
- HFP High Force Probe Handpiece



Consumable Items -Resistance Spot Welding

Common consumable items utilized in the resistance spot welding process

- Polishing Disks
- Kovar Ribbon
- Nickel Battery Tabs



Weld Head



Laser Welding Systems

Manual and Pneumatic Weld Head.

Light Force Microwelding Head - 50 Series

• Very Low Force - 40 to 1000 grams

- True Vertical Electrode Force Motion
- Exclusive "Unitip" Electrodes
 - Specifically Designed for Microwelding and Thermocompression Bonding **Applications**

Electromagnetic Weld Heads

Linear actuated, electromagnetic weld heads



- Low Force Electronic Weld Head Series 320
- Electromagnetic Spot Welding Head 300 Series

Delta Series Laser Welding Workstation

- Economical with High Performance Industrial Laser Equipment
- Class I Eyesafe Enclosure
- Multi-axis CNC Motion with G & M Code Programming
- Lean Manufacturing Style Small Footprint
- Stable, Ergonomic Platform
- Customizable



Airbag Initiator



End Effector Cap



Dental Tool



Micro Spot Laser Welder: 0.25 W

- 30 Micron Spot Diameter with Fiber Delivery
- Real-time Power Feedback
- Precise Laser Welder Energy Control
- Pulse Durations from 0.04ms
- Peak Power from 0.04 1.0 kW
- Exceptional Pulse-to-Pulse Power Stability
- Air cooled, Single phase



Pacemakers



Laser Marking System (Green/Fiber/UV)

• State-of-the-art standard laser systems for spot or seam welding

• Laser Welding Gloveboxes

- Low Cost, Flexible Laser Welding Workstations
- Fiber Laser Welding Workstation



Motorised Weld Head

Motorized weld heads designed for ⁱⁿtegration into automated resistance ^spot welding production lines

- Servo Motor Welding Head 70 Series
- High Force Servo Motor Driven Spot Welding Head - 73 Head
 - Motorized High Precision, Low Force Spot Welding Head for Automation - MFP25
- Motorized High Speed, Low Force Spot Welding Head for Automation - MFP60



Laser Marking System (Green/Fiber/UV)

Laser engravers for industry

- Largest Q switch range of 2-500 kHz
- High speed, High Contrast marks on plastics
- High speed annealing and engraving of metals
- Multi language software support
- Rotary and XYZ integrated motion for marking on cylinders and tubes
- PC, touchscreen, pendant or standalone



Laser Cutting System (Fiber/UV)



Higher throughput specification 0.01-1" tube diameter capability Up to 3m length tubes Wet and dry cutting Automated tube feeder option



Laser cut flexible tubing



Stents



Laser cut stainless s teel tube

Hermetics Sealing System



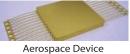
Parallel Seam Sealing System - SM8500 Parallel Seam Sealing System – SM8500

- Current control mode for both the hermetic welding and sealing process
- Programmable electrode force
- Most complete line of power supplies in the industry
- Extended electrode life with electrode Auto-Trak software
- Position-based weld pulses
- Electrode roll-bak feature
- Process inhibits

TECHNICAL SPECIFICATIONS

Part size	0.158 in to 8 in (4mm to 203mm)		
Position encoder resolution	X - 20,000 cts/in,		
Position encoder resolution	Y - 40,000 cts/in		
Weld force (programmable)	500 to 5000 grams		
Linear weld speed	0.01 to 1.5 in/sec		
Rotary weld speed	0.01 to 1.5 linear- in/sec (720° max. rotation)		
Input gas requirement	60 psi minimum		
Input power - HF25 power supply	Three phase, 192-264 VAC (240V nominal), 50/60 Hz, 25 a Three phase, 320-440 VAC (400V nominal), 50/60 Hz, 20 a Three phase, 384-528 VAC (480V nominal), 50/60 Hz, 13 a		
HF25 current output	100 to 2400 A, ±2 A		
HF25 pulse width	0.10 to 99.00 ms		
Mechanism input power	Single phase, autovolt 110 to 240 VAC 50/60 Hz, 15 A		
Calibration	To NIST standards	CE Certified	
		• • • • • • • • • • • • • • • • • • • •	







Semiconductor Components - Metal Lid to Metalized Seal **Ring on Ceramic**



Lid Placement, Tack and Seam Sealing System-AF8500

- Current control mode for sealing
- Programmable electrode force
- Most complete line of power supplies in the industry
- Vision sytem
- Electrode roll-bak feature
- Automated magazine loader option



TECHNICAL SPECIFICATIONS

Part size without vision, pick-place and tack	0.118 in - 4.3 in	(3mm-110mm)	
Part size without vision and pick-place	0.118 in - 8 in (3mm-203mm)		
Lid placement accuracy	+/-0.003 in (+/-0.08mm)		
Weld force (programmable)	500 to 3000 grams (1g increments)		
Linear weld speed	0.01 to 1.5 in/sec (0.1 increments)		
HF25 current output	100 to 2400 amps, ±2 amps		
HF25 pulse width	0.01 to 99.00 milliseconds (0.1 increments)		
Input power - HF25 power supply	192-264 VAC (240V nominal), 3 Ph, 50/60 Hz, 25 amps 320-440 VAC (400V nominal), 3 Ph, 50/60 Hz, 20 amps 384-528 VAC (480V nominal), 3 Ph, 50/60 Hz, 13 amps		
Mechanism input power	Autovolt 110 to 240 VAC 50/60 Hz single phase 15 amp		
Compressed gas requirement	60 psi minimum		
Calibration	To NIST standards	CE Certified	

Glovebox Systems



Advanced Glovebox Welding System - AX5000

- Fully computerized operation
- Historical and real time graphical display
- Independent vacuum pumping systems on all ovens and antechambers
- Integrated moisture, oxygen, argon, and helium monitoring
- Configurable modular design



Basic Entry – Level Gloveboxes – Alpha Series

- Designed for integrated seam sealing, projection welding, or stand-alone use
- Vacuum bakeout oven range from ambient-125 plus higher options
- Secure locking oven door
- Includes oil-free vacuum pump
- Ergonomically designed viewing
- Extremely low maintenance

AIM Solder Material



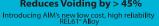


Lead-Free | Halogen-Free | VOC-Free

- High Reliability Alloys (Lead Free Solder)
- Water Soluble
- No Clean
- Rosin Based
- Epoxy & Underfill
- Dross Recycling
- Special Materials (including performs, wire, foil,
- ribbon, seals & etc)





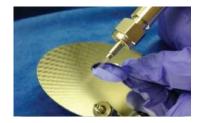




Revolutionary M8 Solder Paste No Clean, High Reliability, Mitigates Voiding Issues

COOL CLEAN

CO2 Cleaning, Cooling and Extraction











Surface Preparation

- Particle Removal
- Soot Removal
- Solder Flux Removal
- Residue Removal
- Degreasing
- Pre-Inspection Cleaning
- Sintered Metal Cleaning
- Drilling CFRP Stackups
- Dry Machining
- Plastic Deburring
- Botanical Oil Extraction
- Silicone Extraction
- Elastomer Outgassing
- Dry Cleaning

Heraeus FUSION UV			Heraeus	
	F300 Series	Light Hammer [®] 6 Mark II	F600 Series	Light Hammer [*] 10 Mark II
Bulb Length	15cm (6-inch)	15cm (6-inch)	25cm (10-inch)	25cm (10-inch)
Extended Curing Width	Unlimited cure width by stacking lamps end-to-end	Unlimited cure width by stacking lamps end-to-end	Unlimited cure width by stacking lamps end-to-end	Unlimited cure width by stacking lamps end-to-end
Bulb Type	H, D, V, H+, Q	H, D, V	H, D, V, H+, Q, A, M	H, D, V
Start Up Time	20 seconds (cold start), 5 seconds (warm start)	15 seconds (cold start), instantaneous (warm start) ²	15 seconds (cold start), 5 seconds(warm start)	15 seconds (cold start), instantaneous (warm start) ²
Shutter	Optional Mechanical	Electronic Rapid Cycle	Optional Mechanical	Electronic Shutter ³ Optional Mechanical
Power Class	120w/cm (300W/inch)	200w/cm (500W/inch)	240w/cm (600W/inch)	240w/cm (600W/inch)
Power Level	Fixed or Quick Restart (optinal) ³	Full, Variable (35-100%) or Rapid Cycle	Dual level (160/240 W/cm) or Variable (25-100%)	Variable (35-100%) Quick Restart ³
Cooling Blower	Modular or Remote	Modular ¹ or Remote	Remote Only	Remote Only

Not available with "electronic shutter", ²Depending on Duty Cycle and Power Level, ³Not for Cycling operation

UV4103 Segment

HERAEUS SEMRAY UV LED

Model

Peak wavelength [nm]

Typ. Irradiance [W/cm2]

Emission Window [mm2]



365, 385, 395, 405

365 nm: 13 385 nm: 15

395 nm: 18 405 nm: 17 1.540 x 45

112 x 136 x 253

UV4103-20

1.540 x 136 x 253

UV4103-01



	1
~	08 A A - 38 mm
radiance (a.u.)	9.6 ····································
Inacian	0.4
	az / / / / /

UV AIR DISINFECTION ROBOT

Dimensions (W \times D \times H) [mm3]77 \times 136 \times 253

(AIR DISINFECTION-HAD RR)

(DIRECT UV-HAD RF)





Nordson EFD

- Accessories & Auxiliary Equipment
- Automated Dispensing Systems
- Components
- Controllers and Control Systems
- Dispense Tips and Needles
- Filling Systems
- Fluid Dispensers
- Jet Valve Systems •
- Lubrication Systems
- Mixers
- Reservoirs and Pumps
- Solder Products
- Syringe Barrels and Cartridges
- Thermal Compounds
- Two-Component (2k) Products ٠
- Valve Systems •





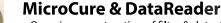
Nordson

EFD

EIT Radiometer Products

UviCure[®] Plus II & UV Power Puck[®] II

- UviCure[®] Plus II-single UV bandwidth
- Power Puck[®] II-four UV Bandwidths
- Updated electronics & display, USB port
- Provides energy density & irradiance values, irradiance profile and comparison to reference run
- High-Standard(10 Watt), Mid (1W) & Low (100 mW) Power versions available
- User adjustable parameters & changeable batteries



- One piece construction of filter & detector
- 2048 samples/second, "smooth-off" irradiance
- MicroCure good for 200 readings
- Values displayed on DataReader
- UVA & UVV available

Spotcure Intensity Meter

- Self contained unit that accepts different sizes of light guides
- Medical Applications
- Display of irradiance (W/cm²)
- Standard unit: 20 W/cm
- Extended range also available for high intensity sources

3DCURETM



Sensors:

- Calibrated, Single Spectral Bandwidth Radiometer
- UVA, UVB, UVC, UVV
- Mix & Match Bandwidths in the same string
- Provides mW/cm2 and mJ/cm²
- Connect up to 32 sensors in a daisy-chain digital network
- Sensor mounting adapters ("Positioners") for convenient permanent positioning

Powered by a DCM Size: 1.75" diameter x 0.5 h

DCM-Data Collection Module:

- Collects and transfers data to a PC via EIT Cure3D Software
- Provides power to the sensors
- Portable, or tethered
- Rechargeable battery
- Size: 4.5" x 2.75" x 0.8"

EIT 3D Cure Software -Provides ActiveX controls for user customization.









Ultrasonic Metal Welding



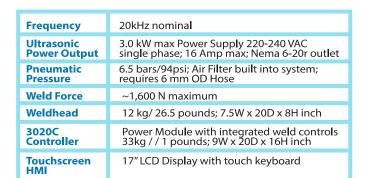
Ultrasonic Wire Splicer US-3020WN





RAPID EVERYTHING

High weld rate with consistency Welds stay within small SD of spec Quick change tooling under 5 minutes





One step calibration

THOUGHFUL

Visual interface Easy to use and learn



SUSTAINABLE

Long-lasting and inexpensive tooling Lasts > 1M welds for small splices Environmentally friendly process

15 YEARS TESTED Proven solution for: Automotive Industries



MIDAS Microelectronics Rework System





de-lidder™

machines remove lids from hermetic packages non-destructively, leaving a particle-free cavity and reseal-ready surface so product can be reworked and resealed. We have multipurpose and dedicated models for rectangular, round, and optical fiber modules.

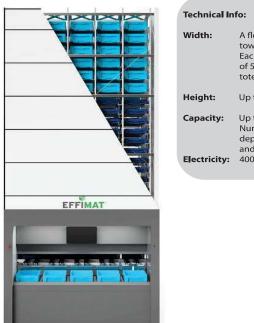


HGRS HOT Gas Workstations

safely remove components from assembled circuits with momentary jets of precisely localized very hot Nitrogen. A full suite of tools also make these machines the ideal "thermal workbench" for prototypes & advanced applications.

EFFIMAT Storage System

New high-speed generation of vertical lift modules



Technical Info:				
Width:	A flexible number of towers are connected. Each tower has a width of 5 totes of 40 cm or 4 totes of 60 cm			
Height:	Up to 12 meters			
Capacity:	Up to 25 kg pr. tote. Number of totes depending on tote-sizes and lift height			
Electricity:	400 volt			
	TECHNICAL	DATA		
	TRAYS T From 2.500 F	DEPTH OF RAYS rom 650 to 200 mm*		
	HEIGHT	APACITY		



CLASSICMAT	

PBD Hot Melt Dispensing/Masking System





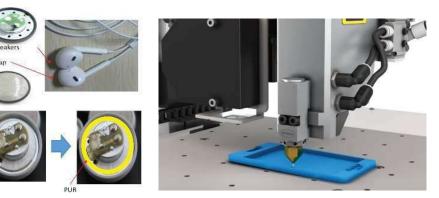
Unity Robot



offer specialised



Hot Melt and Rigidizing Component



Electronics Device Bonding & Sealing

NorCom 2020

Fine & gross leak test system





Specifications



Features:

- Simultaneously tests for fine and gross leaks
- Quantitative results measured in cc-atm/second helium
- One-step calibration and setup
- Tests variety of hermetically sealed devices, including PC-board-mounted and pig-tailed packages
- Provides Statistical Process Control (SPC) for tracking of test results
- MIL-STD 883 and MIL-STD-750 compliant

Benefits:

• Reliable and repeatable test results

- No helium mass spectroscopy or bubble testing
- •Increases production throughput
- Improves packaging process control
- Elimates back-end production bottlenecks
- Minimal training required.
- Accomodates "welding trays" from typical seam welders
- Eliminates red dyes used with Kr85 gross leak testing
- Not susceptible to gas absorption like helium mass spectroscopy and krypton 85 testing
- No helium bombing required

Inspection Specifications	2020-6	2020-12	
Inspection pallet size	5.5″ x 4.5″ (14.0cm x 11.4cm)	12″ x 6.0″ (30.5cm x 15.2cm)	
Max. number of device/cycle Throughput/hour	Up to 1,000 devices per Cycle Up to 10,000 device per hour	Package size dependant Package size dependant	
Leak Rate Measurement Unit	cc-atm/sec helium		
Dimensions/Weight System with Isolation Table	56" L x 42" W x 53"H / 425 lbs 142cm L x 107cm W x 135cm H / 193kg		
Power Requirement Input Power	Domestic Model - 115 VAC, 60Hz, 15amps Export Model - 220-240 VAC, 50Hz, 8 amps		
Helium Consumption	0.9 cubic ft/cycle@50psi	1.4 cubic ft/cycle@50psi	
Laser Safety Classification	CDRH Class 2		
Operating System	Windows 7 ^o Professional		
MIL-STD Compliant	MIL-STD 883 TM1014 and MIL-STD 750 TM1071		

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