AN ISO 9001:2015 CERTIFIED COMPANY

ECIRONICS

partnership forever



umiSed

KIC SPS

Product Overview





Let's turn Silver into Golden



Mectronics - Partnership Forever

ABOUTUS

Founded in 1994, Mectronics aimed to bring premium quality products from top international brands to India. And that's exactly what it has done these two and half decades. Today, Mectronics Marketing Services is a leading distributor for PCB assembly floor consumables and support equipment in India.

Rising to boast a pan-India presence - headquarters in New Delhi, but offices in Bangalore, Chennai, Pune, Hyderabad and NOIDA. Top class products, process support, ex-stock deliveries and competitive pricing turned Mectronics into one of the top distributors within a few years of operation.

Fast adapting products and service to changing customer requirements kept the customers happy and intact. Our optimum product pricing suits suppliers. And ensures best value to customers. Both SEZ as well as domestic customers benefit with Mectronics. Our SEZ unit gets customers ex-stock material in India at best international prices.

For 25 years now we have been supplying the Indian electronics industry. All our growth is built upon the trust placed in us by our suppliers and customers.

OUR STRENGTHS

- Extensive stock to ensure immediate deliveries of our products. About 2000 SKUs ensure one shop solution to our customers.
- Pan-India presence with 6 offices, staffed with well experienced, qualified and trained team of engineers, providing best after-sales support to our customers.
- Optimised product pricing. Our initiatives with SEZ trading unit results in unique cost advantages to our SEZ, EOU customers.
- Supportive partners and loyal customers help us to give our best







Mectronics Team



Heraeus

Heraeus has stood out for over 155 years as globally recognized precious metals and materials specialist with revenue exceeding Euro 12 billion and more than 1000 employees in more than 100 countries.

Products we offer

- No-Clean Solder Paste
- Lead Free Solder Paste
- SMT Adhesive Dispensing / Printing
- Rework Flux
- Flux Pens

Solder Paste

Heraeus offers a full line of no clean, solvent clean and water soluble pastes. These

lead free pastes provide industry leading wetting and outstanding void performance on a variety of component terminations and surfaces. The products feature wide process windows which reduces processing costs significantly, makes set-up easy and saves time.







Lead free Solder Paste Series F 640

Code	Alloy	Melting Point	Particle size
F640-SA30C5-89M30	Sn96.5/Ag3/Cu0.5	217°C	25-45µm (Type 3)
F640-SA30C5-89M40	Sn96.5/Ag3/Cu0.5	217°C	20-38µm (Type 4)
F640-SA3C7-89M30	Sn99/Ag0.3/Cu0.7	217°C -229°C	25-45µm (Type 3)
F640-SA3C7-89M40	Sn99/Ag0.3/Cu0.7	217°C -229°C	20-38µm (Type 4)

No-Clean Solder Pastes Series F 381 / F 352 / F 381AT

Code	Alloy	Melting Point	Particle size
F381-SN62-90.5M30	Sn 62 / Pb 36 / Ag 2	179°C	25-75µm (Type 3)
F352-SN62-90.5M30	Sn 62 / Pb 36 / Ag 2	179°C	25-75µm (Type 3)
F381- AT - 90.25M30	Sn 63 / Pb 37	183°C	25-45µm (Type 3)
F381-SN63-90.5M40	Sn 63 / Pb 37	183°C	20-38µm (Type 4)
F381- AT - 90.25M40	Sn 63 / Pb 37	183°C	20-38µm (Type 4)



Solder Paste Printing



SMT Adhesive Printing

SMT Adhesive



Ideal, high dot form and excellent consistency of the glue dots. Specially developed for printing with thick

stencils. Very high green strength prevents component movement during placement form stable glue dots.

Excellent adhesion with standard and also with difficult to-glue components. Very low humidity absorption, steep temperature increase and very short curing times are possible without danger of formation of air bubbles or worse adhesion.

Key Benefits:

- Ideal, high dot form and excellent consistency of the glue dots
- · Very high green strength
- · Excellent adhesion with standard and also with difficult-to-glue components
- · Very low humidity absorption.
- Steep temperature increases and very short curing times are possible
- Without danger of formation of air bubbles or worse adhesion.
- High surface insulation resistance (SIR)

Code	Color	Density	Curing	Strength
PD 955 PY	Yellow	1.2 g/cc	150°C/1.5m	≥25 N/mm2
PD 955 M	Red	1.2 g/cc	150°C/1.5m	≥25 N/mm2

Rework / Tacky Fluxes

From wave soldering and rework to BGA/CSP ball attach and flip-chip attach, Heraeus offers special liquid and paste or gel fluxes for different application techniques: spraying, foaming, dipping, pin transfer, dispensing etc.

These fluxes leave minimal, non tacky flux residues. In wave soldering, this allows for the lowest level of false rejects during pin testing. Residues of fluxes for flip-chip attach have outstanding compatibility with underfill materials.







Microbond Flux 5070

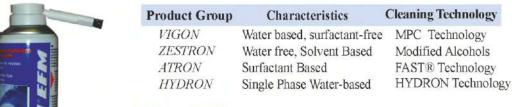
ZEST

info@ZESTRON.com



Zestron is the global market and technology leader for cleaning products and services for high precision cleaning applications. You can test all Zestron producst free of charge at their five technical centers in Europe, America or Asia. The Technical Centers with more than 35 cleaning machines from leading system manufacturers, offer you the opportunity to carry out free trials in all types of systems. Zestron helps you to develop cleaning process for you.

Three main cleaning product group currently available are:









Rework Flux Cleaner



Glue Needle Cleaner

	Substrates Electronic assemblies Stencils, Screens		Cleaning media					
	Substrates	Contamination	Solvent-based	Water-based MPC®	Aqueous alkaline-based			
1		Flux residues	ZESTRON® FA + VIGON® EFM	VIGON® A 200 VIGON® A 201 VIGON® US VIGON® IN 600 HYDRON® SE 230A	ATRON® AC205 ATRON® AC207			
2	THE THE SECOND CONTRACTOR OF THE SECOND CONTRA	Solder pastes, SMT adhesives	ZESTRON [®] SD 100 ZESTRON [®] SD 301 ZESTRON [®] SW		-			
3	Misprints	Solder pastes SMT adhesives	ZESTRON® SD 301	VIGON® SC 200				
4	Solder frames, Reflow-Oven, Condensation traps	Baked-on flux residues	=	VIGON® RC 303	ATRON® SP 200 ATRON® SP 300			



Baked Flux Cleaner



Needle Cleaning



Wave Solder Chain Cleaning



Stencil Cleaning



Condensation traps & solder pallet cleaning



Misprint Cleaning



Maintenance Cleaning







Electronics



Military & Aerospace Industrial Controls Renewable Energy

Electronics









Automotive Consumer Electronics

HUMISEAL. THE WORLD'S LEADING FORMULATOR OF PROTECTIVE COATINGS FOR ELECTRONICS CIRCUITS

Acrylics, Aerosol Products, Masking Products, Silicones, Strippers, Synthetic Rubber, Thinners, Urethane, UV Curable (Type AR/UR, Water Based Supplying the most diverse range of conformal coating solution that deliver protection in all electronics applications against, humidity and condensation, airborne contamination and impurities, the influence of severe operating conditions commonly associated with lead-free manufacturing.





Without Conformal Coatings











Urethanes

Coating Type

Silicones

Acrylics 25-75µ (0.001 - 0.003") Polyurethane **Epoxies**

25-75µ (0.001 - 0.003") 25-75µ (0.001 - 0.003") 50-200µ (0.002 - 0.008")

MIL Spec Thickness

Suitable for LED Coating

Conformal Coating Features

HumiSeal: Acrylic (AR) Products

- Easy to apply
- Most forgiving of contamination
- Dry at room temperatures
- Have desirable electrical and physical properties
- Fungus resistant
- Long pot life
- No exotherm during drying- heat sensitive components
- Does not shrink
- Easy to Repair

HumiSeal: Silicone (SR) Products

- Excellent for high temperature service
- Good thermal endurance heat generating devices
- Humidity and corrosion resistance
- One component, 100% solids no VOC issues
- Thermal or moisture cure
- Lower abrasion resistance- softer
- High CTE
- Mechanically repairable
 - · Not solvent-soluble / Do not vaporize with heat
 - New Silicone Digesters

HumiSeal: Urethane (UR) Products

- Excellent chemical and humidity resistance
- Outstanding dielectric properties for extended period
- Excellent chemical resistance
- Available as single or two-component
- Variety of cure types
- Moderately repairable
 - · Chemical strippers
 - Heat

HumiSeal: 1B51 Series (Synthetic Rubber)

- High flexibility
- Excellent electrical properties
- High humidity & corrosion resistance
- Good thermal stability, low outgassing
- High cohesive strength tough
- Low CTE
- Must be repaired mechanically
 - Not solvent soluble / requires aggressive stripper
 - · Does not vaporize with heat

			ACRY	LICS			URETH	HANES		UV CURE		SILICONES	& EPOX	Υ
LIQUID PROPERTIES	1B18 LED	1B18	1B31	1B73	1R32 A2	1A20	1A27	1A33	1A34	UV40	1CA9	1C49LV	1C51	2A53
Available as an Aerosol	Yes	Yes	Yes	Yes	No	No	No	Yes	No	No	No	No	No	No
Solids Contents (%w/w)	7±1%	30	35	29.5	26	50	50	44	39	95	95	90	98	54
Viscosity (Max)/cPs	-	250	200	250	475	130	3000	200	200	800	10500	800	780	500
Flash Point °C (°F)	-1 (30)	-1 (30)	-1 (30)	-1 (30)	6 (43)	28 (83)	FR	-1 (30)	7 (45)	85 (176)	102 (215)	102 (215)	121 (250)	N/A
VOC (grams/litre)	687.5	654	592	661	600	511	480	531	576	35	0	0	0	455
Drying Time • Tack-free/mins	10	10	10	30	10	60	30	15	150	0.5	180	60	N/A	300
• Dry	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	20hrs@88°C	20 hrs	24 hrs	N/A	24 hrs	24 hrs	15 mins	2 hrs@93°C
Shelf Life at RT	24 Months	24 Months	24 Months	24 Months	24 Months	6 Months	24 Months	24 Months	6 Months	12 Months	12 Months	12 Months	12 Months	12 Months
PHYSICAL PROPERTIES														
Operating Range °C	-65 +125	-65 +125	-65 +125	-65 +125	-65 +125	-65 +125	-65 +125	-65 +125	-65 +125	-65 +150	-66 +200	-65 +200	-65+200	-65 +200
Glass Transition Temperature (Tg)	42	42	14	42	14	71	28	26	18	45	<-65	<-65	<-65	19
CTE (x10^6/ "C) · Below Tg	67	170	170	67	193	193	170	119	85	85	NA	N/A	N/A	N/A
Above Tg	340	340	340	134	338	532	N/A	225	201	197	367	323	296	NA
ELECTRICAL PROPERTIES														
Dielectric Constant (1MHz @ 25°C)	2.6	2.5	2.5	2.6	2.5	3.5	3.6	3.6	3.5	25	2.5	2.5	2.4	3
Insulation Resistance Per MIL-I-46058C (Ω)	5.5 x 10 ⁴ 12	8.0 x 10^14	8.0 x 10 ¹ 4	5.5 x 10 ⁴ 14	8.0 x 10^14	3.0 x 10 ⁴ 14	2.0 x 10^14	20x10^14	1.7 x 10^14	8.0 x 10^14	5.0 x 10 ⁴ 14	5.0 x 10 ⁴ 14	5.0 x 10 ⁴ 14	2.0 x 10 ⁴ 14
Moisture Insulation Resistance Per M L-I-46058C (Ω)	7.0 x 10 ⁴ 10	6.0 x 10 ⁴ 10	6.0 x 10 ¹ 0	7.0 x 10 ⁴ 10	6.0 x 10 ⁴ 10	4.8 x 10^10	1.2 x 10 ⁴ 10	1.6 x 10^10	6.3 x 10 ⁴ 10	4.7 x 10^10	1.0 x 10 ⁴ 10	1.0 x 10 ⁴ 10	1.0 x 10 ⁴ 10	2.8 x 10^10
Recommended Thinner (Dip & Brush/Spray)	_	503 / 521 , 521EU	J503 /521,521EU	73	521EU	521, 521EU	521	503/521, 521EU	521, 521EU	N/A	N/A	N/A	N/A	535













Thermal Profilers

KIC provides thermal profiling hardware and profiler software tools that help define, measure, monitor, and improve thermal processes for electronics manufacturing services. This reduces downtime, can decrease electrical expenses, and reduce your labor costs, all while improving your manufacturing quality, overall productivity, employee morale and customer satisfaction... and ultimately, profits.

Manual Products

Smart Profiling

Standard Profiling





Features:

- 3 AAA alkaline batteries, Standard or re-chargeable
- RoHS Compliant / Standard Lead Free
- Stainless steel thermal shield with cool touch
- Easy to use KIC's graphic software
- Flexible customization of Process Window
- The Process Window Index (PWI)
- 6, 7, 9 & 12 Channel Version
- Datalogger & RF Transmission Version

Optimization Software:

- Navigator(Automatic Prediction)
- Auto-Focus
- Energy Optimization
- SPC Chart

Automatic Products

Smart Automation

Standard Automation









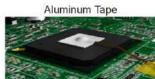
Fixtures & Accessories

KIC BE











Specification	KIC X⁵	KIC Start 2		
No. of Channel	7,9 or 12	6		
Accuracy	±0.	5°C		
Reading/Second	0.1 to 10 r	eading/sec		
Solder Paste Directory	Available	Not Available		
Thermocouples	Type K, Standard			
Temperature Range	-150°C t	o 1050°C		
Optimization	Navigator(Automatic Prediction)+ Power Saving	Manual Prediction		

Continuous Monitoring



KIC RPI

The KIC RPI is an automatic thermal management system

- RPI (Reflow Process Inspection)
- Around the clock process monitoring
- Continuous real time SPC & CPK charting
- Automatic profiling
- Process traceability for every product
- Eliminate periodic profile
- Instant Alarm on out-of-spec condition

Highlights:

- Barcode traceability
- Remote Process Monitoring
- LDO Live Data Output

Optimization Software Included

- Auto Focus
- Energy Optimization

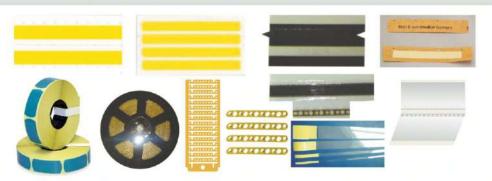
Specification	KIC RPI	KIC ProBot			
Accuracy:	± 2°F	(1.2°C)			
Readings/second:		13			
Thermocouples:	Type K, each probe with 15 TC				
Temperature Range:					
Communications:	Ethernet, R.	J-45 connector			
SPC & Cpk Charts	Standard	Optional			
Process Traceability	Standard	Optional			
SMEMA	Yes				











Splice Products

- Double Splice Tapes: 8,12,16, 24, 32 mm
- Single Splice Tapes: 8,12,16, 24, 32 mm
- Special Splice Tapes For Panasonic, Juki, NXT, Siemens available
- · Antistatic, Halogen Free Splices available
- · Splice Clips: Normal and stapler type
- · Tape Extender: 8, 12, 16, 24 mm

Splice Tools

- Splice Tool for Clips
- Cutting Tool for Paper and Emboss Reel
- Stapler Splice Tool
- · Splice Trolley





Kapton Dots

Kapton Dots: 6, 8, 10 mm



ESD & Packing Tapes

· Various colours & sizes available



Kapton Tape: 5,10, 13, 25 mm & other

Stencil Cleaning Rolls



Yamaha Paper core



Ekra Paper core



DEK Plastic core

Stencil Cleaning Rolls

- DEK
- MPM
- EKRA
- Panasonic/KME
- Yamaha
- Sony
- Samsung
- Suneast
- Minami



Cleaning Wipes

- Microfiber
- · Lint free

Size Available

- 4" X 4" 6" X 6"
- · 9" X 9"

**Stencil cleaning rolls can be customized as per requirement

Pick & Place Nozzles, Filters & Spares

Fuji XP

Juki

- Fuji NXT
- Mirae
- Yamaha
- Sony
- Samsung Panasonic
- Philips

- Casio
- I-Pulse
- EVEST

FUJI Machine



XP Nozzles

NXT H08/12 H04 H01

JUKI Machine



KE2010~2040

KE2050~2080 FX-1

PANASONIC Machine

CM-602 Nozzle

SAMSUNG Machine

YAMAHA Machine



CP45-FV/CP45-NEO / SM310-320 SM400/MX MPS QP

YS24X / YS100 / YS12F / YV88X / YV100X / YG100B / YG200X / Topaz / Emreld / Sapphire



FUJI NXT H08 P/N.:XH00120

FUJI NXT H12 P/N.:XH00800



FUJI XP



YAMAHA FILTER P/N.:AGFPN8150 P/N.:K46-M7182-COX



PANASERT MSH P/N.:1023710012



PANASERT MVII P/N.:1042710035



PANASONIC MSF FILTER



KME 201/202 P/N.:010DC181502



KEM CM602

JUKI 2060



JUKI 2000/2010 2070/2080



JUKI FX-1



SAMSUNG CP 45



SAMSUNG M320



SONY



I-PLUS P/N: 4769201 M4/M10/M20



























Pick & Place Feeders



Electric Feeders



Electric Type Feeder For Yamaha



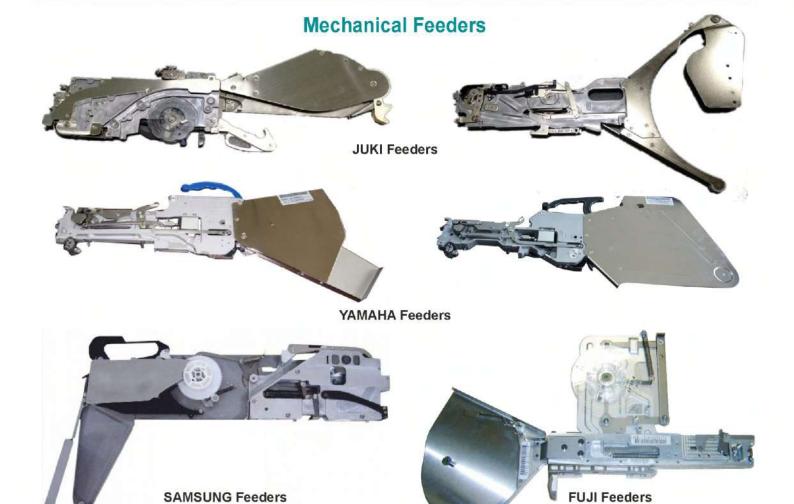
Electric Feeder For Juki



Electric Feeder For Samsung



Label Feeder





0.01-35 N.m

DC Brushless Electric Screwdrivers

Intelligent Brushless NC Series Servo Electric Screwdriver



Model	Measuring Range N. m	No load speed (r.p.m)	Input voltage	Diameter of screw	Screw bit
SD-NC08AT	0,01-0,08	100 - 1200		M1.0-M1.7	HBA4mm
SD-NC60AT	0.05-0.6	100 - 1200		M1.2-M2.5	HM4mm
SD-NC08LAT	0.01-0.08	100 - 1200		M1.0-M1.7	Ø4mm
SD-NC100LAT	0.1-1	100 - 800		M1.4-M3.0	HIM4 mm
SD-NC200LAT	DLAT 0.1-2 100 - 1200		M1.4-M3.5	Ø5mm	
SD-NC500LAT	0.5-5	-5 100 - 1000	307	M2.5-M6.0	1/4hex
SD-NC1000LAT	2-10	100 - 550		M4.0-M8.0	1/4hex 03/8-7/16
SD-NC1700LAT	3-17	100 - 350		M4,5-M10	1/4hex @3/8 7/16
SD-NC250BLAT	5-25	100 - 215		M6.0-M12	1/4hex 03/8-7/16
SD-NC3500LAT	8-35	100 - 155		M8.0-M14	1/4hex 03/8-7/16
A EE	→ B → B	specification 	of scre	-	0.5— 1F2

Intelligent Brushless Electric Screwdriver with Counter Compact Trigger-start Type



Model	Measuring Range Kgf. cm N. m		No load speed (r.p.m.)	Input voltage	Weigh (g)	Diameter of screw	Screw bit
SD-BC2000L	0.1-1.5	0.01-0.15	500-1000		340	M1.0-M1.7	Ø4mm
SD-BC3000L	0.2-3.5	0.02-0.34	500-1000		340	M1.2-M2.5	Ø4mm
SD-BC4000L	0.3-6.5	0.03-0.63	500-1000		340	M1.4-M2.6	Ø4mm
SD-BC4500L	1-10	0.1-1	500-1000		540	M1.4-M3.0	Ø5mm
SD-BC4500LF	1-10	0.1-1	1300-2000		540	M1.4-M3.0	Ø5mm
SD-BC5000L	2-12	0.2-1.18	500-1000		540	M1.6-M3.0	Ø5mm
SD-BC5000LF	2-12	0.2-1.18	1300-2000		540	M1.6-M3.0	Ø5mm
SD-BC5500L	3-19	0.29-1.86	500-1000	30V	540	M2.3-M3.5	Ø5mm
SD-BC5500LF	3-19	0.29-1.86	1300-2000	300	540	M2.3-M3.5	Ø5mm
SD-BC6000L	5-25	0.5-2.45	500-1000		680	M2.6-M4.0	1/4hex
SD-BC6000LF	5-23	0.5-2.25	1300-2000		680	M2.6-M4.0	1/4hex
SD-BC6200L	10-30	0.98-2.94	500-1000		680	M2.6-M4.5	1/4hex
SD-BC6200LF	10-30	0.98-2.94	1300-2000		680	M2.6-M4.5	1/4hex
SD-BC6300L	10-35	0.98-3.43	350-500		680	M3.0-M5.0	1/4hex
SD-BC7000L	15-45	1,47-4,41	350-500		680	M3.5-M5.5	1/4hex
SD-BC7300L	20-50	1.96-4.9	500-1000		680	M4.0-M6.0	1/4hex

Brand-new Normal Push Start Type



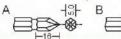
Model	Measuri Kgf. cm	ng Range N. m	No load sp HI	eed (r.p.m) LO	input voltage	Weigh (g)	Diameter of screw	Screw bit
SD-BA450P	1-10	0.1-1	1000	650		540	M1.4-M3.0	Ø5mm
SD-BA450PF	1-10	0.1-1	2000	1300		540	M1.4-M3.0	Ø5mm
SD-BA500P	2-12	0.2-1,18	1000	650		540	M1.6-M3.0	Ø5mm
SD-BA500PF	2-12	0.2-1.18	2000	1300		540	M1.6-M3.0	Ø5mm
SD-BA550P	3-19	0.29-1.86	1000	650	nen/	540	M2.3-M3.5	Ø5mm
SD-BA550PF	3-19	0.29-1.86	2000	1300	30V	540	M2.3-M3.5	Ø5mm
SD-BA600P	5-25	0.5-2.45	1000	650		680	M2.6-M4.0	1/4hex
SD-BA600PF	5-23	0.5-2.25	2000	1300		680	M2.6-M4.0	1/4hex
SD-BA630P	10-35	0.98-3,43	500	350		680	M3.0-M5.0	1/4hex
SD-BA700P	15-45	1.47-4.41	500	350		680	M3.5-M5.5	1/4hex

Super Value Trigger Start Type



Model	Measuri Kgf. cm	ng Range N. m	No load sp HI	eed (r.p.m)	voltage	Weigh (g)	Diameter of screw	Screw bit
SD-A0235L	0.2-3.5	0.02-0.34	1000	650		330	M1.2-M2.5	Ø4mm
SD-A0365L	0,3-6.5	0.03-0.63	1000	650	30V	330	M1.4-M2.6	Ø4mm
SD-A1010L	1-10	0.1-1	1000	650		500	M1.4-M3.0	Ø5mm
SD-A2015L	2-15	0.19-1.47	1000	660	307	500	M1.6-M3.0	Ø5mm
SD-A3019L	3-19	0,29-1.86	1000	650		500	M2.3-M3.5	Ø5mm
SD-A5025L	5-25	0.5-2.45	1000	650		740	M4.0-M6.0	1/4hex

Optional specification of screwdriver bits













Normal Trigger Start Type



Model	Measuri Kgf. cm	ng Range N. m	No load sp HI	eed (r.p.m) LO	Input voltage	Weigh (g)	Diameter of screw	Screw bit
SD-A2000L	0.1-1.5	0.01-0.15	1000	650		330	M1.0-M1.7	Ø4mm
SD-A3000L	0.2-3.5	0.02-0.34	1000	650		330	M1.2-M2.5	Ø4mm
SD-A4000L	0.3-6.5	0.03-0.63	1000	650		330	M1.4-M2.6	Ø4mm
SD-A4500L	1-10	0.1-1	1000	650		430	M1.4-M3.0	Ø5mm
SD-A4500LF	1-10	0.1-1	2000	1300		430	M1.4-M3.0	Ø5mm
SD-A5000L	2-12	0.2-1.18	1000	650		430	M1.6-M3.0	Ø5mm
SD-A5000LF	2-12	0.2-1.18	2000	1300		430	M1.6-M3.0	Ø5mm
SD-A5500L	3-19	0.29-1.86	1000	650	30V	430	M2.3-M3.5	Ø5mm
SD-A5500LF	3-19	0.29-1,86	2000	1300	300	430	M2.3-M3.5	Ø5mm
SD-A6000L	5-25	0.5-2.45	1000	650		540	M2.6-M4.0	1/4hex
SD-A6000LF	5-23	0.5-2.25	2000	1300		640	M2.6-M4.0	1/4hex
SD-A6200L	10-30	0.98-2.94	1000	650		640	M2.6-M4.5	1/4hex
SD-A6200LF	10-30	0.98-2.94	2000	1300		540	M3.0-M4.5	1/4hex
SD-A6300L	10-35	0.98-3,43	500	350		640	M2.6-M4.5	1/4hex
SD-A7000L	15-45	1.47-4.41	500	350		640	M3.5-M5.5	1/4hex
SD-A7300L	20-50	1.96-4.9	1000	-		640	M4.0-M6.0	1/4hex

Economic Trigger Start Type



Model	Measuri Kgf. cm	ng Range N. m	No load sp Hi	eed (r.p.m) LO	Input voltage	Weigh (g)	Diameter of screw	Screw bit
SD-A300L	0.2-3.5	0.02-0.34	1000	650		330	M1.2-M2.5	Ø4mm
SD-A400L	0.3-6.5	0.03-0.63	1000	650		330	M1.4-M2.6	Ø4mm
SD-A450L	1-10	0.1-1	1000	650		430	M1.4-M3.0	Ø5mm
SD-A450LF	1-10	0.1-1	2000	1300		430	M1.4-M3.0	Ø5mm
SD-A500L	2-12	0.2-1.18	1000	650		430	M1.6-M3.0	Ø5mm
SD-A500LF	2-12	0.2-1.18	2000	1300		430	M1.6-M3.0	Ø5mm
SD-A550L	3-19	0.29-1.86	1000	650		430	M2.3-M3.5	Ø5mm
SD-A550LF	3-19	0.29-1.86	2000	1300	30V	430	M2.3-M3.5	Ø5mm
SD-A600L	5-25	0.5-2.45	1000	650		740	M2.6-M4.0	1/4hex
SD-A600LF	5-23	0.5-2.25	2000	1300		740	M2.6-M4.0	1/4hex
SD-A620L	10-30	0.98-2.94	1000	650		740	M2.6-M4.5	1/4hex
SD-A620LF	10-30	0.98-2.94	2000	1300		740	M2.6-M4.5	1/4hex
SD-A630L	10-35	0,98-3,43	500	350		740	M3.0-M5.0	1/4hex
SD-A700L	15-45	1,47-4.41	500	350		740	M3.5-M5.5	1/4hex
SD-A730L	20-50	1.96-4.9	1000	-		740	M4.0-M6,0	1/4hex

Screwdriver Accessories



Torque Tester

Spring Balancer









many others models available for different application.....

Delivering Core Technological Advantages with Best-In-Class Performance

Soldering Tools for Electronics Assembly

As the industry has been rapidly changing, Our soldering, desoldering and rework systems have evolved to keep up with lead-free processes and the demand for fast, Yet high performance soldering. Our comprehensive line of soldering, desoldering and rework systems.

- Lead Free Compatible
- · Temperature Stability-No need for calibration
- Reduced risk of overshoot
- Increased Tip Life and value



Electronics Bench Tool Solutions

Soldering Systems



Dual Port Simaltaneous Soldering & Rework System MX - 5211



Production Soldering System MX - 500



Multi Function Rework System MFR Series



Production Soldering System PS Series

Hot Air Tools



06 nozzles (1.5 mm - 4.0 mm)

Digital Hot Air Pencil - HCT2-200



Hot Air Rework Tool HCT - 900



Programable Hot Air Rework Tool HCT - 1000



Solder Wire Feeder

Dual and Hoof Cartridge Tips

Pre-Heater & Board Holder



Convection Bottom Preheater PCT - 100



Programable Bottom Preheatr PCT - 1000



Free Standing Board Holder BH-2000





Serving The Electronics Assembly Industry For Over 30 Years

Desoldering System MFR-1350

Introducing the next generation of Desoldering

- · Dual Switchable Ports
- · 60 Watts System
- · Powered by Smartheat® Technology
- · Self-contained powerful pump
- · 2 in 1 ergonomic and flexible hand-piece: pencil or pistol
- · Collection chamber with 40% increased capacity*
- · Innovative collection chamber for quick & easy change
- · Compatible with previous MFR Desolder range

Technical Specification

Power Consumption:	110 Watts max.(Power Supply MFR-PS1300)	
Output Power:	60 Watts Max	
Idle Tip temperature stability:	+/- 1.1°C (34°F) in still air	
Vacuum suction force:	0.7 bar (21in Hg at Vacuum pump at sea level)	
Tip to ground Potential:	<2mV	
Tip to ground resistance:	<2 Ohms	
Surface Resistivity:	10° – 10° Ohms	







Pencil

Pistol

Fume Extraction System



BVX - 100 Series



100 001100 BVA 200 0

Technical Specification

	BVX-100	BVX-200
Static Pressure (suction force):	1250 Pa (5"WC	850 Pa (3.5"WC)
Fan Capacity:	110m3/h (65 cfm)	250m3/h (150 cfm)
Flow Rate (with filter):	85m3/h (50 cfm)	2 x 75m3/h (45 cfm)
Air Inlets/Number of Stations:	1	2
Power:	85 watt	85 watt





VFX-1000 Technical Specifications

Volume Fume Extraction System

Ambient Operating Temperature	10 to 40 °C	
Maximum Enclosure Temperature	55°C	
Noise	<54dBA	
Airflow/Pressure	350 m ³ /hr/96 mbar (206 cfm / 96 mbar)	
Certification/Marking	TUV, CE	
Dimensions w x d x h	590 x 375 x 415 mm (23.2 x 14.8 x 16.3")	

Configuration

Configuration	
Maximum number of 32mm Arms	7
Maximum number of 50mm Arms, Cowls or Down Draft Trays	5
Maximum number of 75mm Arms,	2

Deep Pleat Pre Filter Specification

Surface Media Area	6m2 approx.	
Filter Media	Glass Fibre	
Filter Media Construction	Folded	
Filter Efficiency	F8 (95% @ 0.9 microns)	

Combined Filter Specifications

Combined Filter Opeci	lications
HEPA Filter Media	Glass Fibre
HEPA Media Construction	Maxi Pleat Construction with Webbing Spacers
Gas Filter	Treated Activated Carbon
Filter Housing	Zintec Mild Steel
Filter Efficiency	99.997% @ 0.3 microns



CV-5200 Connection Validation Power Supply Rated Power Consumption 125W 80W max **Output Power Output Frequency** 13.56 MHz Heating Method Induction Display 2.8" Color TFT LCD Display Connections Single Port Communications USB Tip-to- Ground Potential <2mV **Tip-to-Ground Resistance** <2ohms Idle Temperature Stability 1.1°C in still air **Tip Temperature Accuracy** Meets IPC J-STD-001 Hand-piece cable length L=183cm, burn proof, ESD safe

ENTRY LEVEL MODULAR BGA REWORK SYSTEM

- Modular Rework System
- MRS-1100A Modular Rework System is comprised of:
 - · HCT-1000 Programmable Hand Held Convection Tool
 - PCT-1000 Programmable Preheater
 - · ATH-1000 Adjustable Tool Holder (two versions available)
 - · LM-1000 Light Magnifier (Optional)
 - HN Series Nozzles
- Each component can also be purchased separately



Connection Validation Robotic Soldering System



Reduce Risk and Increase Productivity with Robotic Soldering

Power Requi	rement	115/230 VAC, 50	115/230 VAC, 50/60 Hz, 200 Watt Single Phase		
Resolution		X, Y, Z	0.01 mm		
		Theta (0)	0.01*		
Operations F	tange	X,Y	400mm x 400 mm (±0.02%)		
		ZZ	100 mm (±0.02%)		
		00	300° (±0.02%)		
Speed	Vector	X, Y	Up to 100 mm/s Max		
		ZZ	Up to 80 mm/s Max		
		6.6	Up to 100 °/s Max		
Speed	Interpolation	X, Y	Up to 150 mm/s Max		
		ZZ	Up to 150 mm/s Max		
		θ θ	Up to 150 °/s Max		
Speed	Space	X,Y	Up to 300 mm/s Max		
		ZZ	Up to 300 mm/s Max		
		e e	Up to 300 °/s Max		
Repeatability		X, Y, Z	± 0.2mm		
		0	± 0.2°		
Weight		83 kg			
Dimensions (WxDxH)	1055 x 775 x 82	0 mm (41.5" x 30.5" x 32)		







Outstanding Performance, Reasonable Price



M70 Soldering Station includes: 70 watt power supply, tip cleaning workstand, chisel tip and soldering hand-piece with 4 foot cord. Additional tips sold separately.

Features:

- · 70 Watts of Power
- ± 2% Temperature Accuracy
- 3 Temperature Settings
- Easy to use touch panel
- Accurate Control
- Very Affordable
- Fast Recovery

M70 Accessories



Includes space for a sponge and brass pad to clean solder tips.

M70-Heater

Replacement heater with temperature sensor.



Replacement hand-piece with 4 foot connection cord.

Other accessories available:

- M70-Sponge Tip cleaning sponge
- M70-BSponge Brass tip cleaning sponge
- · M70-Enclosure Tip Enclosure
- · M70-ENut Enclosure Nut
- M70-PCB PCB board
- M70-XFmer Transformer

An excellent choice for Soldering or Rework Applications

DESCO

Dual Head Modular BGA Rework System

· Dual head Scorpion system with placement accuracy to 0.0015" (.038mm).

The standard single-head with placement accuracy to 0.004" (.1mm).

- · Linux-based integral computer
- · External USB for file transfer
- · 2800W dual zone preheater with 550W top heater
- · Dual, full color HD camera with Diffused LED lighting
- · Selectable camera view
- Auto-Profiling to create successful reflow profiles in first go
- · Real time graphical display of solder joint temperatures
- · Graphics-based user interface for simple operation
- · Precision Placement head uses pick and place machine nozzles
- · Compact footprint for easy benchtop use
- · Self-contained machine/ Plug & Play machine
- · Made in the USA



Available Models:

- APR-1200-SRS
- APR-1200-SRS-MOB
- APR-1200-SRS-R





Dispensing Robot



BondingCoating

- Dispense dots of solder paste Encapsulation
- Form-in-place gasket
- Filling
- · Potting

Technical Specifications

Feature	TSR2201	TSR2301	TSR2401			
Power Sup	100V ~ 240V AC					
Power Consu	Power Consumption			80VV		
Number of Contro	llable Axes	3 axis				
	X axis	200mm	300mm	400mm		
Moving Range	Y axis	200mm	300mm	400mm		
	Z axis	100mm	100mm	100mm		
Speed Range	X/Y axis	0.1	~600 mm/s	sec		
opeed Kange	Z axis	0.1~200 mm/sec				
Repeatability Accuracy X/Y/Z axis		0.02mm				
Resolution	X/Y/Z axis	0.01mm				
Landina Malaba	Tool	5 kg	7 kg	7 kg		
Loading Weight	Head	2 kg	4 kg	4 kg		
Storage for Proce	ssing Files	M	lax. 255 file	S.		
	Temperature	0~40℃				
Working Ambient	Relative Humidity	20%~90% (no condensation)				
Dimension (W	303×377× 521 mm	418×513× 521 mm	518×613 521 mm			



Fixed Ratio Meter, Mix & Dispense System



Jet Valve	PC Pump	710	715	1K Ultra-Lite	PD44
Non-contact Jet 300 shots/sec 10nl/ shot	Continuous 0.01-1600 cc/mi	Continuous for low viscosity material	Continuous for high viscosity material	Continuous for mid-high viscosity material	2K positive displacement valve 0.005-5 cc/cycle
l de		AL DE	4		lite.
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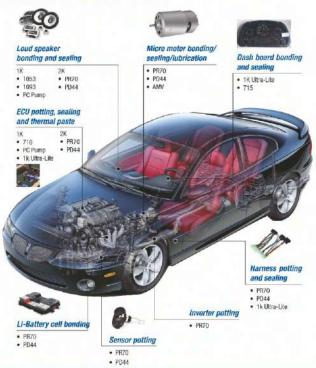
Graco Supply Systems improve your productivity

Discover the next generation supply systems

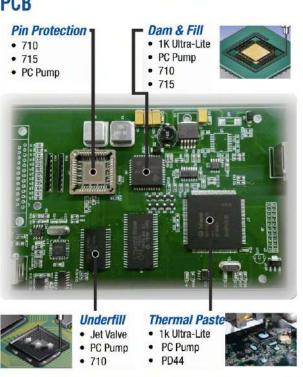
Graco Supply Systems reliably deliver one component sealants, adhesives and other medium to high-viscosity materials from or drums to metering and dispensing systems. Designed with innovative features plus advanced pump and air motor technologies, Graco Supply Systems help maximize your plant's production capacity.



Automotive Electronics



PCB





Pick & Place Machine

High-Speed Modular Mounter



- 120,000 CPH(Optimum)
- Accuracy of ±35μm Cpk≥1.0
- 040mm (1005)~ 54mm² (Option)
- 4 Gantry x 16 Spindle / Head Side View Vision system
 - (Monitor Before & After Placement)
- 120ea Feeder loading Capacity

High Speed Modular Mounter



- 82,000 CPH(Optimum)
- Ultra Silm Design with a Total Length of 1.29m Super high speed fly vision head
- Side-view Vision System(SVS)
 Part size min (0402mm) 01005 inch ~ Max
- 140 x 55mm (Height 28mm) PCB size max 900mm x 580mm
- Flexible conveyor system
- Smart feeder

High Speed Wide Range Placer for the Next Decade



- 80,000 CPH / 56,000 CPH (Optimum) 10 Spindles x 2 Gantry
- Flying: 0402 (01005 inch) ~ □16mm, H10mm
- Stage(Option): Max.

 55mm², H15mm /H 25mm
- PCB Size : 50 x 40 ~ 510 x 460mm (standard)
- Max. 740 x 460 mm (Option)
- Conveyor config: standard: 1-2-1
- Option: 1-2-2 / 2-2-2 / 2-2-1

Flexible High Speed Chip Shooter



- 75,000 CPH(Optimum)
- 2 Gantry x 10 Spindles/Head
- Part Size: 0402(01005 inch) ~ 14mm(H12mm)
- PCB Size: Max. 510(L) x 460(W)(Standard)
- Max. 610(L) x 460(W)(Option)
- Electrically Driven High Speed and High Precision

High Precision, Multi Function Mounter



- Placement Speed : Chip1608 8,500 CPH (Based on IPC9850) QFP 4,000 CPH (Based on IPC9850)
- Placement Accuracy : ±50μm@μ+3σ/Chip
- ±25μm@μ+3σ/QFP
- Applicable Parts: 0402(01005 inch) ~ 57 x 42mm (H28mm, Option: 42mm)
- Applicable PCB: Max. 610(L) x 460(W) x 1 Lane

Advanced High Speed Flexible Mounter



- 39,000 CPH(Optimum)
 1 Gantry x 10 Spindles/Head
 Applicable Parts: 0402 ~ 42mm(H15mm)
 Applicable PCB: 460(L) x 400(W)(Standard)
 Max. 1500(L) x 460(W)(Option)
 SMART Feeder The world's first Auto Splicing
 and Auto Loading functions

Advanced Flexible Mounter



- 28,000 CPH(Optimum)
 1 Gantry x 6 Spindles/Head
 Applicable Parts : 0603 ~ 55mm(H15mm)
 0402(Option), ~75mm Connector
 Applicable PCB : 460(L) x 400(W)(Standard)
 Max. 700(L) x 460(W)(Option)
 SMART Feeder The world's first Auto
 Splicing and Auto Loading functions

The world's first LED mounter



- Simultaneous Pickup Solution
- with One Feeder Patent Pending)
- Non-stop Flying Vision Recognition
- 39,000 CPH
- Dedicated to LED
- Simultaneous Placement of Two PCBs: Max. 1200mm(L) x 356mm(W)

Advanced Flexible Mounter [LED]



- 25,000 CPH (Optimum) 1 Gantry x 6 Spindles/Head
- Applicable part : 1005 ~ □22mm (H12)
- ~ □55mm (H15) (Option)
- ~ L75mm Connector (Option) Applicable PCB: 460(L) x 400(W) (Standard) Max. 1,200(L) x 510(W) (Option

SMT Solution from Global Technology Winner



X-Ray Inspection System

Model: X-6600



Technical Parameters

Items		Contents
Model		X-6600
X-RAY launching tube	Tube Type	Sealed type X-ray Tube
	Maximum tube voltage	90kV
	Maximum tube current	0.12mA
	Focal size	5µт
	Magnification	Geometric magnification: 150X System magnification: 1000X
Detector	Image Speed	30 fps
	Resolution	1176*1104
	Tilt angle	Detector60°Tilting
Cabinet Specifications	Stage size	500mm*450mm
	Dimension	L: 1360mm,W: 1360mm,H: 1650mm
	Net weight	1300KG
	Input voltage	AC 110-220V (+10%) (international general power supply)
X-ray leakage amount		≤1 µ Sv/h
Operation System		Windows 7 Seamark 3.0
Total power		1.7Kw

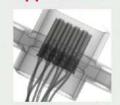
Model: X-5600



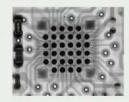
Technical Parameters

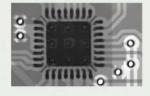
Items		Contents
Model		X-5600
X-RAY launching tube	Tube Type	Sealed type X-ray Tube
	Maximum tube voltage	90kV
	Maximum tube current	200μΑ
	Focal size	15 µm
	Magnification	Geometric magnification: 15X System magnification: 80X
Detector	Image Speed	20 fps
	Resolution	1176*1000
Cabinet Specifications	Stage size	250mm*250mm
	Net weight	300KG
	Input voltage	AC 110-220V (+10%) (international general power supply)
X-ray leakage amount		≤1 µ Sv/h
Operation System		Windows 7 Seamark 3.0
Total power		1.5Kw
Machine Dimension		L:930mm*W710mm*H1070mm

Application















Machine for PC-Board Assembly Equipment Manufacturing Process Consulting



CLEANING MACHINES OVERVIEW

		Single-chamber Cleaning Machines			Multi-bath	
		Super SWASH	Super SWASH Twingo	COMPACLEAN	MINI SWASH	MODULECLEAN
					Maria Maria	
Process Data:						
Max. effective space: WxLxH (mm) W-left/right, L-front/rear, H-height	X	795 x 80 x 816	2x 740 x 40 x 740	450 x 500 x 500	740 × 80 × 740 (820 × 80 × 800 optional)	800 x 100 x 770

FIOCESS I	Jata.						
	ctive space: WxLxH (mm) ght, L-front/rear, H-height	X	795 x 80 x 816	2x 740 x 40 x 740	450 x 500 x 500	740 x 80 x 740 (820 x 80 x 800 optional)	800 x 100 x 770
Orașii c	High density PCBA defluxing, HDI, DCB, BGA, hybrids, PoP, SiP, etc.		~	×	X	×	~
200	Eurocards / hour (3U-160, 100 x 160mm)	X	42 pcs				112 pcs
	Typical consumption / cycle (cleaning agent) - liters	-	0.2 - 0.3				0.15 - 0.25
	Low density PCBA, Misprints from paste and glue	0	V	~	V	V	V
	Eurocards / hour (3U-160, 100 x 160mm)	X	84 pcs	116 pcs	80 - 140 pcs	24 - 48 pcs	112 - 210 pcs
	Typical consumption / cycle (cleaning agent) - liters	F	0.2 - 0.3	0.25 - 0.35	0.3 - 0.4	0.3 - 0.4	0.15 - 0.25
	Stencils (metal and plastic) from paste and glue		1 pc / 32"	2 pcs / 29"	×	1 pc / 29"	1 pc / 29"
	Stencils / hour	X	5 - 8 pcs	8 - 12 pcs		2 - 4 pcs	8 - 10 pcs
	Typical consumption of clea- ning agent / cycle	ra-	0.12 - 0.15	0.15 - 0.2		0.15 - 0.2	0.05 - 0.1
11/11/N	Maintenance parts from soldering process (Solder pallets etc.)	0	V	×	V	×	×
	Solder pallets / hour 500 x 500 x 80 mm (other sizes optional)	X	2 - 3 pcs (more pcs on request)		4 - 6 pcs		

Technical Data:	chnical Data:					
Cleaning agent volume		70	70	71	671	300 / 140
Max. cleaning temperature	_	60 °C	60 °C	60 °C	60 °C	60 °C
Max. rinsing temperature	3	40 °C	40 °C	40 °C	room	50 °C
Max. drying temperature		110 °C	110 °C	110 °C	85 °C	110 °C
Machine dimension WxLxH (mm)	1	1700 × 1150-	1700×1150-	880 × 1680	1500 × 776	4200 x 2300

 Max. drying temperature
 110 °C
 110 °C
 110 °C
 85 °C
 110 °C

 Machine dimension WxLxH (mm) W-left/right, L-front/rear, H-height
 1700 × 1150- 1400 × 1765
 1700 × 1150- 1400 × 1765
 1880 × 1680 × 1680 × 1200
 1500 × 776 × 1200
 4200 × 2300 × 3000

 Machine weight without liquid
 495-630 kg
 500-625 kg
 380-485 kg
 240-270 kg
 1800 kg

Multi-bath cleaning machines also available



Machine for PC-Board Assembly Equipment Manufacturing Process Consulting



Mini SWASH

Automatic Cleaning System for Stencils and PCBA

- Motor driven manifold with liquid and air knife system to ensure direct effect
- Synchronous spraying and drying from both sides
- This prevents stencil from damaging
- Rinsing by cleaner, water or DI water
- Controlled drag-out compensation
- Heating in cleaning medium



PCB Cleaning - Batch Cleaning

CompaClean Automatic Spray Cleaning System for PCB De-fluxing, Misprint and Solder pallets

- One chamber system
- Washing / Pre-rinse / final-rinse / Drawing
- Built in DI water generation system
- Continuous monitoring of conductivity of DI water
- Can load PCB in two tier
- 66 fixed and 8 rotating spray nozzles to cover complete chamber for effective cleaning
- Oscillating basket for shadow free cleaning
- Cleans 190 Euro PCBs per cycle
- Built in exhaust system
- Window based / Touch Screen system / different level Password protected
- Multi stage chemical filtration / Low running cost / MPC[®] based chemical



Super SWASH / Super SWASH Twingo

Automatic Spray Cleaning System for Stencils, Misprints and PCB Cleaning

- One chamber system
- 3-4 steps cleaning & drying
- Low consumption of cleaning material
- 3 steps filtration & Di water reclaim integrated
- Fully closed loop system
- No follow-through to waste / Zero discharge
- Extremely short cycle time
- High volume cleaning





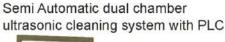
Semi Automatic-N29SA4

Stencil Cleaning Machine

Fully Automatic-N29 Auto

Fully automatic ultrasonic cleaning system with PLC







Main Features

- · Water base process in close loop.
- Rinsing with filtered cleaning liquid.
- · No water.
- Magnetic driven pumps to avoid leaking.
- · Drying system included.
- · Low cleaning process costs
- · Evaporation of cleaner minimized by automatic cover.
- · Product recycled permanently.
- · Minimal maintenance requirements (standard filter cartridges)
- · Automated maintenance alarm

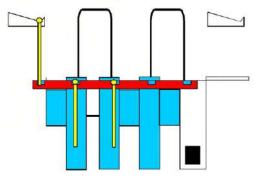


Fully Automatic-NC25

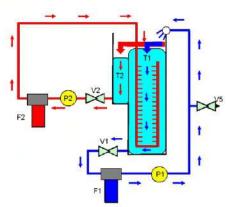
PCB Cleaning Machine



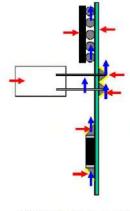
- · High Mix / Low (Mid) Volume
- · Water based cleaning process using immersion Advantages: 100% coverage by cleaning agent
- 1 or 2 Rinsing steps in closed loop on activated carbon and mix bed resin with permanent monitoring of conductivity
- · Cleaning and Rinsing: No discharge, Only filters to change
- · PCB cleaned with high quality requirements
- Very good for low stand off, complex architecture of boards,
- · Extremely low ionic contamination compare to IPC std
- Cost saving process (chemistry/water/power)
- · Traceability
- · Unique Drying process
- · Dries better than any conventional system on the market with guaranteed results!
- · You can coat boards directly after cleaning process!
- · Patented cleaning liquid filtration



- · Multi Chambers process
- Unique Drying process
 Semi InLine (SIL) concept
- 100% Closed loop systems



- Spray under immersion technology
- · Patented Filtration of cleaning fluid to skim the surface from floating contaminants



- Efficient Spray Under Immersion combined with upright agitation to replace Ultrasonics
- and many more features to cater today's electronics manufacturing



CT100 Shematic CONTAMINO CT100 CT100 Characteristics In Tank standard up to 350 x 300 x 80. Other sizes on order with external tank (pcb application) Software easy to use, measure driven by PC. The cell used has been designed for measuring of traces in fine chemistry. WETTING BALANCE / SOLDERABILITY TESTER

Semiconductor Equipment Corporation

MENISCO ST78



Can manage 50 or 75 % solution

Long life filter.







Microprocessor Control with Graphics Display

Standard Features

Pb-Free Reflow Process with 100% forced air Convection

The RF 300 (3-zone) / RF 500 (5-zone) Inline SMT

The oven includes a real-time temperature profiler port. When a thermocouple is attached to the PC board, the actual Reflow temperature profile is displayed

graphically as the board travels through the oven.

each heating zone is

Stainless Steel Conveyor

Reflow Soldering System

Reflow Soldering System's

programmable through the controller.

- 100 Menu Profile Storage
- ISO 9000 SPC fault monitoring reporting
- Password Protection

Bench Top Wave Soldering Machine

- Lead and Lead Free Models
- Dual Zone Preheater with forces air convection
- Minimal warm-up time
- Small Solder Pot with Status Light Tower
- Nitrogen inerting-optional
- Enclosed Stand optional



Eps |

WSM-310-F Wave Soldering Machine

- Dual Wave with Status light tower
- Finger conveyor for pallet-less operation
- Visibility throughout entire process with clear viewing.
- Onload and offload conveyor extensions
- Durable, rugged welded steel frame construction
- Fully dry wave, no oil intermix required
- SS solder pump impellers with external ball bearings
- Laminar wave for through hole component soldering
- Motorized conveyor width adjustment & Solder pot rollout





Selective Solder Machines (ESS310 & ESS500)

Convert your hand soldering to automated selective soldering with an ESS Achieve greater throughput, accuracy, and reliability...

- Through-hole soldering flexibility single point, drag, miniwave, or dip soldering
- Exceptional accuracy and repeatability, with adjacent components
- Ease of operation, less handling, small footprint & durable construction

Technical Data	ESS 300	ESS 500
Max. PCB Size	300 X 300 mm	500 X 500 mm
Max. Transport Speed	6m	/min
Position accuracy	± 0.1mm	(± 0.004")
Flux Tank	2L SS & Fittings, incl	Flux Level Montioring
Flux Speed Max.	6m	/min
Spray Width (Nozzle diameter 0.3mm)	3mm - 6mm	(0.12" - 0.24")
100% IR Preheat	900W	1200W
Nozzles	Wettable	e, Special
N2 Supply (Optional)	N2-covering over sol	der bath & pump unit





Conformal Coating System - Multi Axis

The easycoat-450 Multi-Axis Coating System provides a reliable robotic conformal coating system application for low and medium volume batch and inline conformal coating processing.

Equipped with programmable software and stepper motor process control, the straight forward design means ease of application of conformal coating at all levels

Technical Data	
XYZ Axis drive	Stepper motors plus ball screw
XYZ Resolution	25 Micron
Velocity	350 mm/sec
XYZ Travel	430 mm x 430 mm x 50 mm
Bottom side clearance	100 mm (4")
Conveyor Type	Pin or Chain
Max. conveyor width	430 mm (17")
Edge Clearance	5 mm (0.2")
Transport Height	940 mm - 965 mm (37" - 38")
Communication	SMEMA
Dimension	L1400 mm X W1000 mm X H1550 mm

Semi- Automatic Stencil Printer

The Semi-Automatic Stencil printer has been designed for printing of a large variety of flexible and rigid substrates for application with small to medium size production volumes.

Technical Data		
Print Speed	10-170mm/s	
Alignment Accuracy	±20 um	
Power Consumption	1.2kW	
Air Consumption	1.5NI/min	
Frame Size max.	620 x 740 mm	
Print Format Max	390 x 450 mm	





Stencil Cleaning Machine SIA (SC740)

- Stencil Cleaning Machine is very versatile machine. It has totally closed loop system for Cleaning with it's own spray pump and filtration system.
- Unique Up and Down moving parallel travelling spray manifolds cleans the parts with NO Shadow effect.
- Consumption as low as 0,151/ cycle reported from users for stencil cleaning.

Technical Data	
Number of cleaning phases	2
Temperature of Liquid	max. 60°C
Drying	max. 85°C
Mechanical filtration (Cleaning)	20μm 5μm
tank volume max/min	65/30 L
Pressure on the nozzles with new filters (Cleaning)	0.85 bar
Flow with new filters (Cleaning)	48 I/min
Frame dimension max/std/min	740 x 740 x 40 mm
Speed of reciprocating arms	110 mm/sec

Solder Dross Recovery System

- * Rapid ROI months not years
- ★ Saves up to 50% in solder costs
- ★ Recovery up to 75% in solder from dross
- ★ Reduces de-drossing time by up to 85%
- ★ Self-contained process reduces handing of dross
- ★ Uses no chemicals, additives or toxic substances
- * Can handle multiple wave soldering machine

The Process: EVS Solder Recovery System and its patented process uses heat and pressure inside a magnetised cylinder to seperate and return your pure solder into the ignot tray. The remainder of the material is automatically ejected down a sealed chute into the dross bucket.

The Quality Facts: Hundreds of solder assays prove that the recovered pure solder is exactly the same specification as the solder in your wave soldering machine pot. This has been authenticated by the solder manufacturer and confirmed by the International Tin Research Institute.



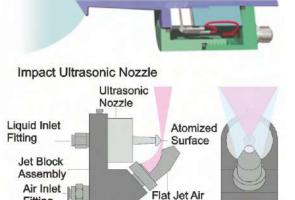
SONO TEK

Ultrasonic Spray Fluxing for Wave Solder Machines Internal or Stand-Alone

Benefits:

- ★ Typical ROI is less than one year
- * Flexible configuration to retrofit into any wave soldering machine
- * Works with all fluxes using the same spray head
- ★ No clogging of spray nozzle
- ★ Precise Spray / No Over-Spray
- ★ Reduce consumption of wave flux (upto 70%)
- * Eliminate thinner
- * Uniform thin film coating
- * Reduce release of hazardous material into environment
- ★ ISO 14001 beneficial environmentally responsible











Industrial Inspection System









PCB Inspection BGA Optical Inspection

In-Line Inspection

Bench-Top Inspection

- Professional Full HD Digital Microscope for inspection.
- Systems equipped with 30x High Resolution
- Optical Zoom, quick Auto Focus,
- Large Working Distance,
- Laser Pointer for reliable,
- Ergonomic, fast visual inspection, quality control & documentation.
- W30x-HD, 30x zoom Full HD 1080p inspection system with laser pointer, incl. Joystick Control unit
- M30x-HD, EasyView, Camera with Control unit and Stand
- In-Line W30x-HD, 30x zoom Full HD Inspection System
- Bench-Top W30x-HD, 30x zoom Full HD Inspection System
- Optilia Digital BGA Inspection System, Extensive, 5.0MP, ESD-protected





Free Sight Inspection













250X Lens

500X Lens

BGA Ins Lens

20-50x varifocal 8-80x varifocal Protecting Filter



Close-up lens +10 diopter



Side Viewing **BGA** lens



Low Aperture 90° Optical Probe



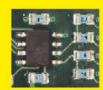
Board Holder Camera Joystick





2x System

High Quality PCB Inspection System









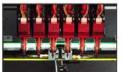






6-Nozzle Online Pick & Place Machine











Model	ZB4050LS
Mounting Head	6
Nozzle Type	Juki Series Nozzle
No. of Feeder	64
Feeder Type	Yamaha
Theoretical Speed	11,000 pcs/hr
Pratical Speed	8600 pcs/hr
Visual Speed	7200 pcs/hr
Application	SMD : 0402 0603 0805 1206 LED : 0603 0805 3014 5050 etc IC : SOT SOP QFN BGA etc Max. Size : 40 x 40 mm Lead Pitch ≥ 0.3 mm
Min. PCB Size	45 x 45 mm
Max. PCB Size	500 x 400 mm
Drive System	Panasonic AC servo motors
No. of Camera	8
Mounting Precision	0.01 mm
Voltage	AC 220 ~ 415 V
Power	500 W
Pressure	8 bar
Weight	440 kg
Size	L 1335 x W 1200 x H 1390 mm

4-Nozzle Desktop Pick & Place Machine

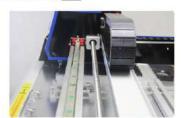


Product Characters











Specification

Model	ZB3545TS		
Mounting numbers	4PCS		
Mounting precision	0.025mm		
Normal mounting	5500pcs/h		
Visual mounting	4000pcs/h		
Suction nozzle type	Juki series nozzle		
Applicable element	0402、0603、0805、1206 etc LED Lamp beads(0603、0805、3014、 5050 etc)		
	Chip (SOT, SOP, QFN, etc)		
PCB minimal size	10×10 mm		
PCB maximum size	350×450 mm		
X/Y axis moving range	630×540 mm		
	YAMAHA CL materials feeder		
Feeder	8mm 12mm 16mm 24mm 32mm		
	IC Tray , Tube IC		
Numbers	30 No. (8mm)		



Manual Precise Solder Paste Printer



Model	ZB 3040H		
Max Printing Size	250 x 400 mm		
Workbench Size	300 x 400 mm		
Max Stencil Size	370 x 470 mm		
Printing Thickness	0~80 mm		
Outline Size	540 x 370 x 380		

2 Nozzle-3 Vison,54 Reel capacity (New Launch)



Model	ZB 3245TSS		
Mounting Nozzle	02 Nos - Juki compatible		
No. of reel pocket	54 No's, 8mm,		
IC	Tray Available, Tube IC Optional		
CPH - Practical	LED - 5000, 3500 (With Vision)		
PCB Size (Max)	320 x 450 mm		
Vision	3 No's CCD, 01-PCB & 02-Part		
Components	0402,0603,1206, IC (20x20mm), LED up-to 5050		
Drive	Stepper Servo motors, Linear guide		
Operating System	Win7, 17" Monitor, Remote Assistance		

Desktop Oven 5 Zone-Hot Wind



Model	ZB HW-530
Heating Nones	05 (03 Top / 02 Btm)
Heating method	Hot Wind circulation
Heating Zone Length	960 mm
Width of Net Belt	320 mm (280mm PCB)
Starting Load (Peak)	7 KW
Running Load	2.5 KW
Outline Size (mm)	L 700 X W785 X H640

Semi - Automatic Solder Paste Printer



Model	ZB 3250H	ZB 32125H 320 x 1200 mm 320 x 1230 mm 550 x 1550 mm	
Max Printing Size	320 x 500 mm		
Max PCB Size	320 x 430 mm		
Max Stencil Size	550 x 650 mm		
PCB Thickness	0.2~2.2 mm	0.2~5.0 mm	
Outline Size (mm)	900 x 700 x 1650	1680 x 700 x 1650	

2 Nozzle - Vision Pick & Place machine



Model	ZB 3245TS				
Mounting Nozzle	02 Nos - Juki compatible				
No. of reel pocket	27 No's, 8mm,				
IC	Tray Available, Tube IC Optional				
CPH - Practical	LED - 5000, 3500 (With Vision)				
PCB Size (Max)	320 x 450 mm				
Vision	2 No's CCD, 01-PCB & 01-Part				
Components	0402,0603,1206, IC (20x20mm), LED up-to 5050				
Drive	Stepper Servo motors, Linear guide				
Operating System	Win7, 17" Monitor, Remote Assistance				

Floor Stand Oven 6 Zone - Hot Wind



Model	ZB RF-630	ZB RF-1230 12 (06 Top / 06 Btm		
Heating Zones	06 (03 Top / 03 Btm			
Heating method	Hot Wind circulation	Hot Wind circulation		
Heating Zone Length	1060mm	2080mm		
Width of Net Belt	300 mm (280mm PCB)	300 mm (280mm PCB)		
Starting Load (Peak)	9 KW	14 KW		
Running Load	3 KW	5 KW		
Outline Size (mm)	L2100 X W680 X H1200	L3500 X W710 X H1250		





Manual Printer



2-Head Pick & Place Machine



Inspection Conveyor



Reflow Oven



Semi-auto Dip Soldering



Forming Machine



Solder Pot



LED Repair Hot Plate



Solder Paste Mixer



Desktop Oven





Output Conveyor



Other Products Available



MC PCB Cutting Machine



PCB Depanelling Machine



PCB Lead Cutting Machine



Flux Spraying Machine



Blade Sharpen Machine



Cutting Blade



SMD Component Counter



Ultrasonic Cleaning Tank











Main function Use in SMT line after AOI, received NG/OK signal from AOI, OK PCB transfer to OK magazine, NG PCB shuttle to NG magazine



Use in SMT line, combine two line into one line, or one line separate into two line.





to change PCB direction





Use in long SMT line as gate function









QX-250 W

Inline Anti-stastics PCB Cleaner

• High-efficient cleaning • Anti-Stastic cleaning • High Quality

Specifications

Model	QX-250W
Outer size	(L)600X(W)750X(H)1450 ± 20mm
Line speed	0~100M/min
Cleaning PCB Size	100*70~(L)330*(W)250mm
Transport height	900 ± 25mm
PCB thickness	0.5~3mm
Clear roller	upper cleaning roller *2pcs
Dust adhesive paper roller	upper adhesive paper roller *1pcs
Anti-Stastic bar	1pcs
Single side support unit	Anti-stastic brush support
Input Voltage	220V(50/60HZ), Single phase
Air Pressure	6kg/cm ²
Air consumption	30L/min~160L/min
Weight	120KG

LS-DC250LP

Inline laser marker

• High-efficient, High precise • Long life, Traceability

Specifications

Model	LS-DC250LP					
Outer size	(L)1000X(W)130X(H)1670 ± 20mm					
PCB size	80°50~ (L)330°(W)250mm					
PCB thickness	0.5~3mm					
Transport height	900 ± 25mm					
Mark type	Data Matrix/QRcode/Code39/ Code128/Graphics/Word/Number/Chiness					
Mark material	non metal, PCB,FPC					
Mark scope	(L)330*(W)250mm					
Make speed	0.8~3s/pcs					
Make recognition	According to clients requirement					
Power spec.	AC 220V/50HZ 2800W					
Air Pressure	0.4Mba					
Weight	630KG					



PM-330DL

Inline Inkjet Printer

• High-efficient, High precise • High Stability, Reparable

Specifications

Model	PM-330DL
Outer size	(L)1000X(W)1035X(H)1510 ± 20mm
PCB size	70*50~ (L)390*(W)330mm
PCB thickness	0.5~3mm
Print scope	(L) 390 * (W) 330 mm
Print angle	0° 90° 180° 270°
Print speed	0.8s/pcs
Repeat accuracy	± 0.1mm
Quantity	A one-section rail, can stop one board.
Print type	One-dimensional code, QR code, English, Number, Character, Graphic
Print recognition	According to clients requirement on QR code size and data size, hand scaner can read normally
Power spec	AC 220V/50HZ 2300W
Air pressure	0.4 Mba
Weight	620KG









Dry Cabinet

Humidity Range	<5%RH	1~50%RH	20~50%RH	40C,<5%RH
Baking and Drying				•
LED Display	•	•		•
Epoxy Paint (White)		•	•	
Antistatic Paint				•







Options available for Dry Cabinets



Excellent Airtight Cabinet Body Reinforced glass window

- Antistatic 3" wheels
- Antistatic colorful window frame
- Adjustable levelers
- Unique steel structure design for excellent air tightness



Reliable Dehumidifier made of PPS material

- PPS material: 230°C heat tolerance to avoid any deforming or melting of dehumidifiers
- Modular design for easy maintenance & painless upgrade
- Silent, drip less, frostless operation

Accessories



Data Logger



Nitrogen Flow Meter



Colourful Storage Bins



Flash Alarm Tower

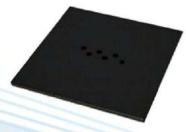


Stainless Steel Shelf



Indoor Induction Light





Shelf c/w stoppers **Adjustable Shelves**

Other Utility Equipment





Auto focus Video Microscope



Magnifier lens





Axial Forming M/c



Full Automatic Bulk Capacitor Forming M/c



Transistor Forming M/c



Nozzle Cleaning M/c



PCB Routing Machine

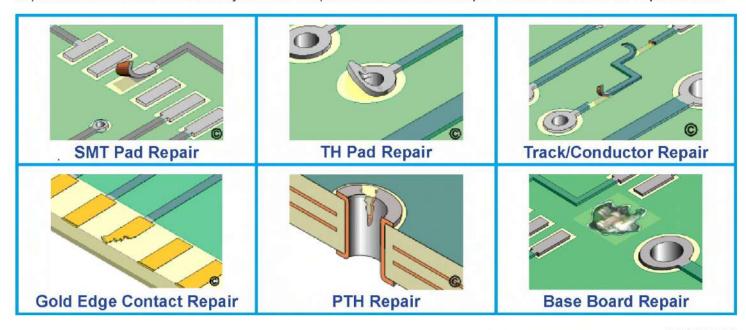


Automatic glue dispenser



Rework Repair Kits as Per IPC-7711B/7721B for PCBAs

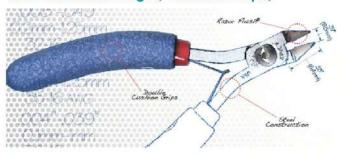
These kits support technicians to do the PCBAs rework as per the IPC standards. Along with complete range of materials, indepth instructions to follow the industry methods of repair and various videos help technicians to achieve the required results.





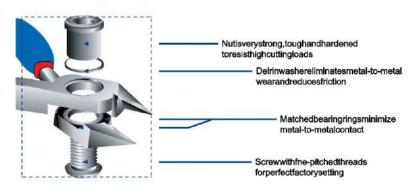
MADE IN U.S.A.

Various handle length, Cushion Grips,



- · Cut hundreds of thousands of times before dulling
- Cut hundreds of thousands of times after resharpenning
- · Cut crispy at the very tip and cut along the entire length of the cutting edges
- · Cut in confined areas
- · Cut wire and leads that are thinner than a human hair
- · Cut extremely flush with no burrs.

Unique Design



Choice of Edge Finish



SEMI-FLUSH: Small edge bevel to cut thicker wire and leads. Greatest resistance to dulling, Will leave a "pinch" in the middle of the end of material being cut.



FLUSH: Very thin edge bevel that leaves only an exceptionally small "pinch" in the middle of the end of the material being cut. Good compromise between Semi Flush and Razor Flush® edge finishes.



RAZOR FLUSH®: No edge bevel, "no pinch" cutte operates like two razor blades coming together. Dull faster than cutters with Semi Flush or Flush edge finish.



Thermal Conductive Grease

Technical Data of K-5213/ K-5212/k-5216/k-5211 (1-1)

Name	K-5213	K-5212	K-5216	K-5211 White Paste 300~350	
Appearance	White Paste	Grey Paste	White Paste		
Penetration 1/10mm,25°C)	300~350	260~300	260~300		
Weight (g/cm3)	2.9~3.1	2.9~3.1	2.9~3.1	1.9~2.1	
Thermal Conductivity (w/m.k)	□3.0	□2.0	□1.6	100g/tube 1kg/jar	
Packing Specification	1kg/jar	1kg/jar	1kg/jar		



Thermal Conductive Adhesive

Technical Data of K-5204K/K-5203K/K-5204/K-5203/K-5202 (1-2)

	Property Name	K-5204K	K-5203K	K-5204	K-5203	K-5202	
UNCURED Density (g/cm	Color	white				Grey	
	Viscosity (cps)		Thixotropic paste				
	Density (g/cm³)	2.5~3.0	2.0~2.5	2.5~3.0	2.0~2.5	1.5~2.0	
	Initial Cure Time (25°C,min)	10	10	20	30	30	
CURED	Tensilestrength(mpa)	! 2.5	! 2.5	! 2.5	! 2.5	1 2.5	
	Shear strength (mpa)	! 1.5	! 1.5	! 1.5	! 1.5	! 1.5	
	Hardness(shore A)	50~65	50~65	50~65	50~65	45~55	
Thermal C	onductivity (w/m.k)	1.6	1.2	1.6	1.2	0.8	
Package 80g/tube, 300ml/cartrid		rtridge					



Magic ray

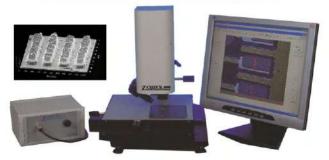
Inline AOI V5000 Series



- For SMTA pre-reflow, post-reflow inline inspection
- Granite platform, greatly improve machine precision and stability
- Programmable RGB+W LED lighting source
- Telecentric lens with constant magnification and low distortion response to high compone

apr@tec instrumentation

Non -Contact Solder Paste Height Measurement System



ZCHECK 600

- Controls up to 10 production lines each with 10 multiple products
- > 3-axis measurement and volume
- > Automatic Z-Axis Measurement
- Measures diameter, angles, centres and irregular shape areas
- Laser pointer on Z-600S
- White Light Source
- Full SPC



Personal Grounding



Cleanroom Footwear



Antistatic Apron



Finger Cots



Wriststrap with wire



Antistatic Hat



Cleanroom Gloves



Cordless Wriststrap



Shoe-Cover



Face-Mask

Bench Top Products



Brush & Dispensing Bottle



Fume Absorber



Tweezers



Floor Mat & Curtain

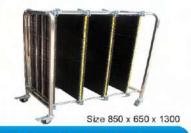


Magnifier Lamp



Ground Cord





PCB Storage Trolley



PCB Trolley for 4ft LED

Storage



I-Tray / L-Tray



SMD Component Trolley



PCB Magazine Rack



Feeder Storage Trolley

ESD Control & Test Equipments



Bench Top Ionizer



Foot wear tester



Over head lonizer



Surface resistivity meter



Ionizing Air Gun



Megohmmeter

PCB Backup Pin



Features & Advantages

- · Reduce changeover time
- · Improve mounting quality
- Eliminate damages to the components
- · Apply to any type of Pick & Place machines

MINIMARITALA

125mm*40mm; customized size also available
Height Adjust according to different Pick & Place machine
38 Pins Based on stardard size

Hardness Type hardness types:

25 shore A

(Suggest to support PCB with thickness above 2.0mm)

22 shore A

(Suggest to support PCB wth thickness between 1.6 to 2.0mm)

20 shore A

(Suggest to support PCB with thickness between 0.6 to 1.6mm

ESD Safe 107-109

Life Span Above 6K hrs based on normal working status Compliant

Application To support the PCBA in the Pick & Place machines























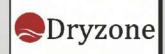


































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