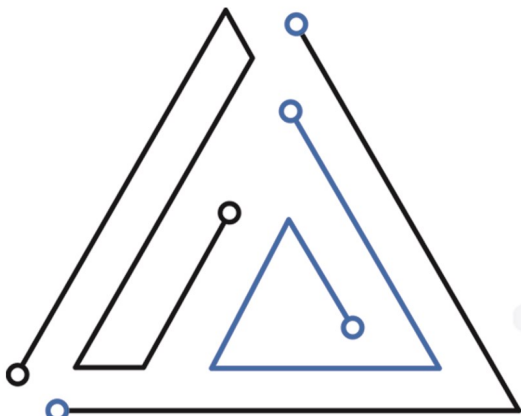
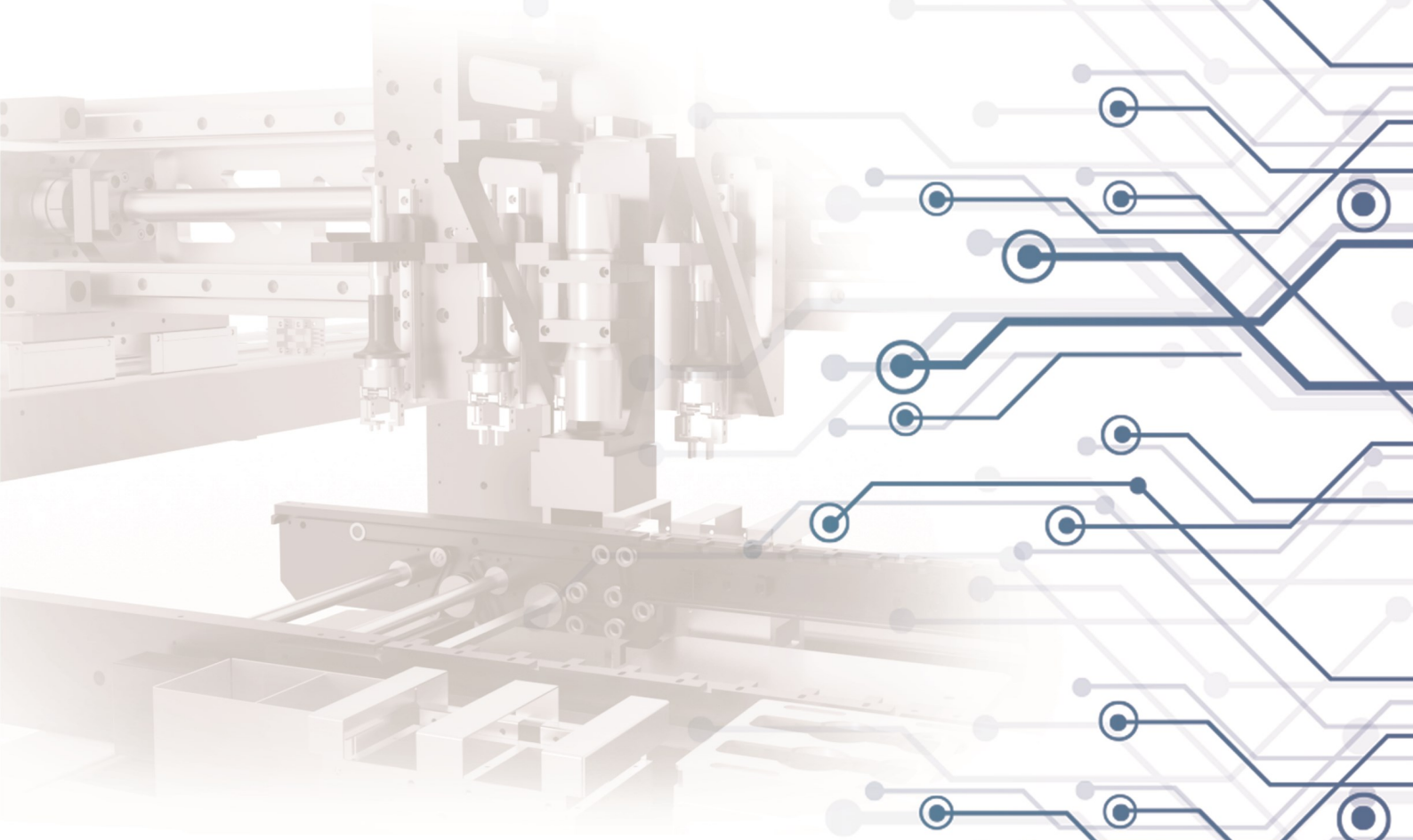


TetraTronik

Products Catalouge



www.tetratronik.com

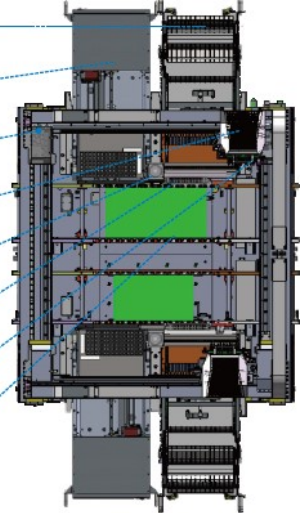


Tetratronik olarak elektronik üretim sektöründe ihtiyaç duyulan, Makine, Sarf Malzemeleri, Yedek Parçalar ve Ekipmanlar ile ilgili hizmetler sağlamaktayız. Ekibimiz, Türkiye’de elektronik endüstrisinde 10 yıldan fazla deneyime sahip, oldukça yetenekli kişilerden oluşmaktadır. İyi bir üne sahip ve dünya çapında tanınmış tedarikçilerle yakın ilişkiler kurarak, hızla gelişmeye ve büyümeye devam etmekteyiz. Çalışanlarımıza güncel eğitimler sağlayarak, müşterilerimize en iyi şekilde hizmet etmek için bilgi ve becerilerimizi sürekli olarak geliştiriyoruz. Vizyonumuz, müşteri ilişkilerimizi geliştirerek, yüksek kaliteli ürünler ve birinci sınıf hizmetler sunarak elektronik endüstrisindeki lider tedarikçilerden biri olmaktır.

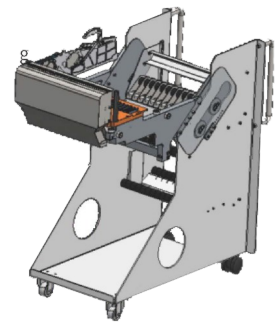
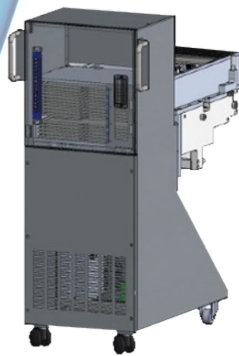
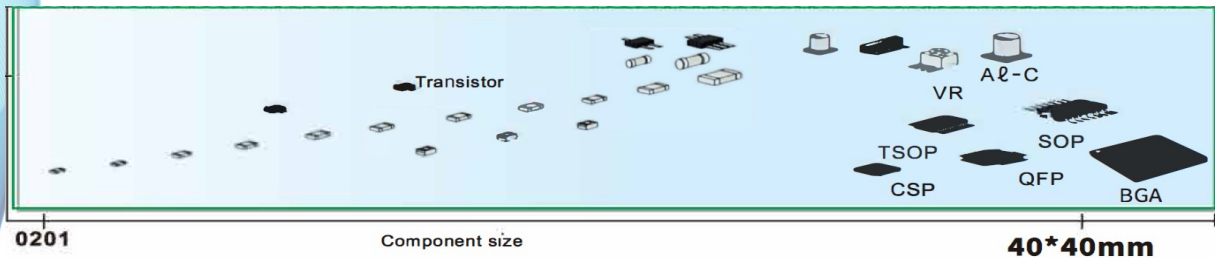
HIGH SPEED UNIVERSAL PICK AND PLACE MACHINE-YT10S/YT20S



- Feeder Cart
- Mobile IC cabinet
- Gantry dual-drive linear motor
- 10-nozzle pick-and-place head
- Fixed camera (optional)
- Nozzle exchange station (optional)
- Top-mounted flying vision camera
- Automatic width-adjustable track



For Small Components Only, Can Set Mounting Height at 10mm to Improve Mounting Capacity

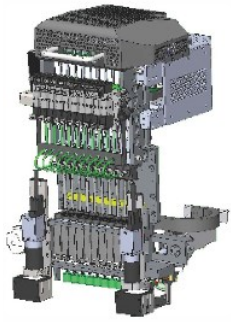


Match with feeder cart, supports 15-layer trays, with the ability to switch freely.

Support YT Series double head intelligent electric tape reel feeder, by optically correcting the feeding position of the component, it can achieve stable, accurate high-speed feeding.

One Feeder Cart accommodates 23 PCS feeder station, equipped with optional automatic tape cutting function.





Integrated Placement Head

Lightweight an integrated head design, and 10 sets of Z axes independently controlled by modular magnetic linear motors, resulting in significant improvements speed, accuracy, and stability.

Precise Corner System

The modular corner system independently controls the angle of each components to ensure high-precision placement there are 10 suction nozzles per head, with a center distance of 16mm.

Vision System

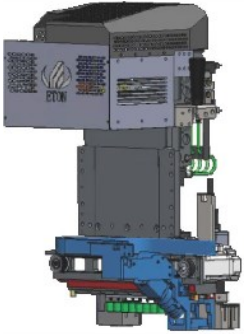
The integrated high-speed and precise flying recognition camera enhances recognition, recognize during X and Y axis movement to once again improve placement efficiency

Ultra-High-Speed Capability

Adopting high-end magnetic linear motors and a multi-function modular head, the placement capability has increased 25% compared to traditional machines, with an optimum placement speed reaching 96,000CPH.

Vacuum Sensing Device

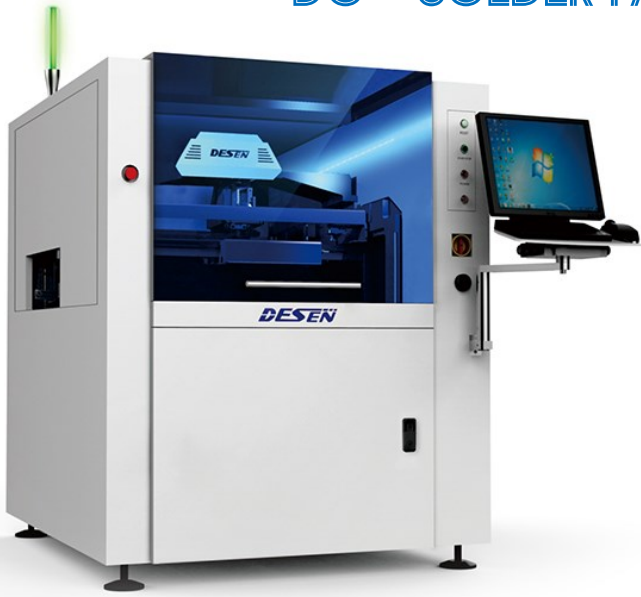
Each placement head with independent detection function, which improves the stability of the equipment and the reliability of the product.



Model	YT10S	YT20S
PCB Size	Max:500*450mm Min:50*50mm	Max:500mm*450mm (single PCB) 500mm*300mm (double PCB) Min:50mm*50mm
PCB Thickness	0.5-5mm	
PCB Clamping	Cylinder clamping, track width adjustable	
Calibration method	Vision alignment + mark correction	
No. of head fly vision camera	1 PCS	2 PCS
Repeat precision	Chip $\pm 0.03\text{mm}$ QFP $\pm 0.025\text{mm}$ Cpk > 1.33 (3 σ)	
Display	LED monitor	
Mounting Precision	CHIP $\pm 0.03\text{mm}$ QFP $\pm 0.025\text{mm}$ Cpk ≥ 1.0 (3 σ)	
Mounting Component Height	Standard: $\varnothing 16\text{mm}$ Special Setting: $\varnothing 10\text{mm}$	
Mounting Speed	48000 CPH	96000 CPH
Components Range	0201~15*15MM packaging material and IC material (Optional fixed camera for 0201~40*40MM)	
Power	1 \emptyset 220AC 50HZ	
Air consumption	0.4-0.6 mpa (4-6kgf/cm ²) 100L/min	
Transmission Speed	> 1000mm/sec	
X,Y,Z Axis Drive way	High-end magnetic linear motor	
No. of Feeder station	52 PCS	104 PCS
No. of Heads	10 PCS	20 PCS
Feeding way	Electric Feeder	



DG - SOLDER PASTE PPRINTING MACHINE



- Integrated molding structure of the entire machine frame
- Scraper upper and lower direct connection screw drive.
- Automatic intelligent cleaning system for steel mesh.
- Adjustable size of stencil frame.
- Classic Z-axis lifting platform.
- Printing cycle time 7s.



5G



Semiconductor



3C Products



Photovoltaic Products



New Display



Automotive Electronics

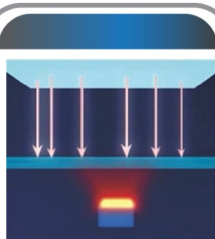


Medical Instruments



New Energy

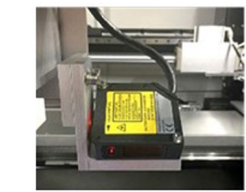
Stencil aperture inspection system



UPS power off protection



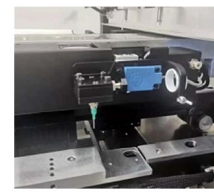
Intelligent temperature control system



Solder paste monitoring system



Solder paste automatic adding



Automatic dispensing function



DESEN DGLF LED STENCIL Printer



- Integrated molding structure of the entire machine frame
- Scraper upper and lower direct connection screw drive.
- Automatic intelligent cleaning system for steel mesh.
- Adjustable size of stencil frame.
- Classic Z-axis lifting platform.
- Printing cycle time 7s.

Model	DG	DG-H	DGL-F
Printing Accuracy	$\pm 22 \mu m @ 6\sigma, Cpk \geq 2.0$	$\pm 18 \mu m @ 6\sigma, Cpk \geq 2.0$	$\pm 30 \mu m @ 6\sigma, Cpk \geq 2.0$
Repeat Position Accuracy	$\pm 10 \mu m @ 6\sigma, Cpk \geq 2.0$	$\pm 8 \mu m @ 6\sigma, Cpk \geq 2.0$	$\pm 15 \mu m @ 6\sigma, Cpk \geq 2.0$
Screen Frame Size	470mm x 370mm ~ 737mm x 737mm	470mm x 370mm ~ 737mm x 737mm	737mm x 300mm ~ 2300mm x 737mm
Substrate Handling Size (minimum)	50mm (X) x 50mm (Y)	50mm (X) x 50mm (Y)	80mm (X) x 50mm (Y)
Substrate Handling Size (maximum)	400mm (X) x 340mm (Y) Options: 460mm (X) x 340mm (Y)	400mm (X) x 340mm (Y) Options: 510mm (X) x 510mm (Y)	2000mm (X) x 510mm (Y) Option: 2000mm (X) x 350mm (Y)
Cycle Time	7S	7S	12S
Screen Frame Thickness	20mm - 40mm		
Substrate Thickness	0.4mm - 6mm		
Print Pressure	0kg - 20kg		
Print Speed	1 - 200mm/s	1 - 200mm/s	6mm/s - 120mm/s
Print Gap	0mm - 20mm		
Substrate Separation	Speed: 0.1 - 20mm/sec Distance: 0mm - 20mm	Speed: 0.1 - 20mm/sec Distance: 0mm - 20mm	Speed: 0.1 - 20mm/sec Distance: 0mm - 30mm

SELECTIVE COATING MACHINE, I GLAZER



- X, Y, Z, using KK Linear module and driving by world- class servo motor. Can spray accurately with high speed, high stability, high positioning accuracy.
- U axis can rotate 180 degrees positive and negative , the valve can be deflected 35 degrees to spray on the side and the circumferential of component.
- X.Y.Z.U four axes are in motion with high speed and stability for adapting the integral welding high strength frame.
- Can be used for PCBA surface coating, dam technology, anti-welding adhesive, DIP component reinforcement.
- Online programming system: point, line, circle, area, and other various spray on different PCB.



5G



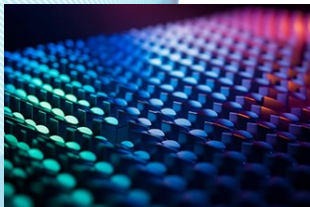
Semiconductor



3C Products



Photovoltaic Products



New Display



Automotive Electronics



Medical Treatment



New Energy

Model	i-Glazer N	i-Glazer S
Coating Range	350mm x400mm	450mm x450mm
Axis	4	3
Wildth of Conveyor (mini)	50mm, 50mm	
Wildth of Conveyor (max)	488mm 480mm	
Component Height	≤90mm ≤90mm	
Product Weight	≤10Kg ≤10Kg	
Transport Height	900±30mm 900±30mm	
Transport Speed	≤18m/min ≤18m/min	
Conveyor Edge Distance	≥3mm ≥3mm	
Valve Quantity	3	2



TOTAL SOLUTION COMPLETE COATING LINE

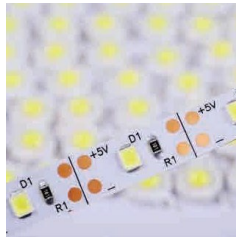


V 310i SE ADVANCED 3D SOLDER PASTE INSPECTION (SPI)

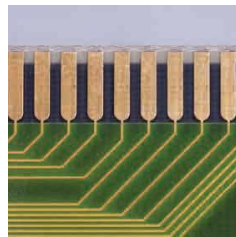


- Designed for paste inspection to increase high throughput productivity in SMT production line.
- Shareable wear & tear spare parts between 3D AOI and 3D SPI under one similar machine.
- Preferred choice by consumer, automotive & telecommunication sectors.
- Powerful reporting for data analysis and performance monitoring.
- High Speed performance SPI system in market.
- Smart Manufacturing Ready.

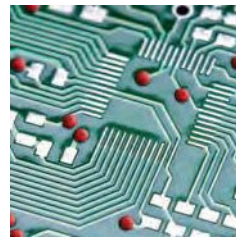
Cater to various inspection coverages within a modified machine platform including gold finger, distance measurement, gold pads, red glue by using ViTroX generic programming platform.



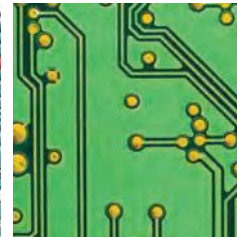
Led



Gold Finger



Red Glue



Gold Pads

Model	V310i SE	V510i SE
Board Level Traceability	Camera-Read Barcodes; External Barcode Reader Configured	Camera-Read Barcodes; External Barcode Reader Configured; OCR Capability with Batch Code Logging
Optical Resolution & FOV Size	60mmx45mm @ 15µm telecentric lens	Default: 60mmx45mm * 15µm telecentric lens
Inspection Speed	12MP CoaXPress @ 15µm Resolution: Up to 94cm ² /sec	P @ 15µm resolution: up to 64cm ² /sec
Maximum PCB Size (L x W)	510mmx540mm (20"x21.2")	510mmx510mm (20"x20")
Minimum PCB Size (L x W)	50mmx50mm (2"x2")	50mmx50mm (2"x2")
Maximum PCB Inspectable Area (L x W)	510mmx533mm (20"x20.9")	510mmx243mm (20"x9.5")

V 510i SE ADVANCED 3D OPTICAL INSPECTION (AOI)

- Shareable wear & tear spare parts between 3D AOI and 3D SPI under one similar machine.
- AI Powered technology for smart, easy & quality programming.
- Preferred choice by worlds top contract manufacturers.
- High Speed Inspection with Real 3D Measurement
- Smart Manufacturing Ready.
- Competitive cost ownership.

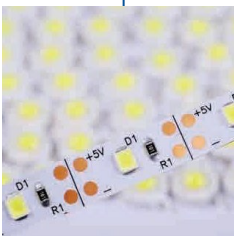


AI Smart Programming

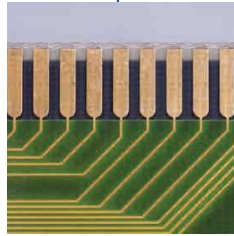
AI Assist Buy Off in Repair Station

Intelligent & automated programming which eliminates human skills dependency & rapidly improve the programming speed
IPC Class Compliance on Algorithm & Parameter
AI Smart programming assures algorithm quality, accuracy & consistency

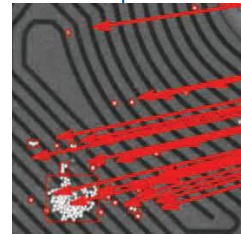
With the AI Smart Assist feature, the inspection results buy off process can be done at faster speed and higher accuracy. With AI Smart Assist, it helps to eliminate human judgment mistake. This new innovation AI feature is fitting the Smart Manufacturing needs as Centralized VVTS buy-off station



LED distance & skew measurement



Golden Finger Dimension measurement



Micro contamination detection and count



V 810i S3 - ADVANCED 3D X-RAY INSPECTION SYSTEM (AXI)



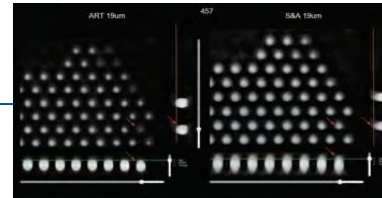
- Designed for various sizes of PCB assemblies to increase production efficiency and cost savings for Electronic Manufacturing Services (EMS), Original Equipment Manufacturers (OEMs), Original Design Manufacturers (ODMs), and etc.
- Powerful and robust test algorithm that cover overall market test component.
- Various Platform to cater different board sizes.
- Various Platform to cater different board sizes.
- High Speed Inspection



Alternative view (3D model) for defects buyoff

Increase users confident to buyoff defects

Defect failure analysis

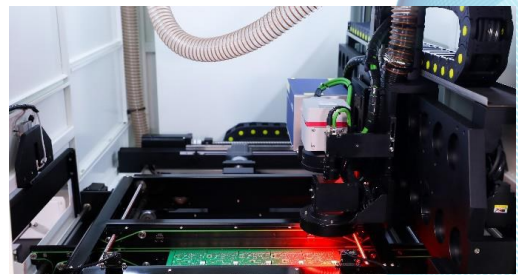
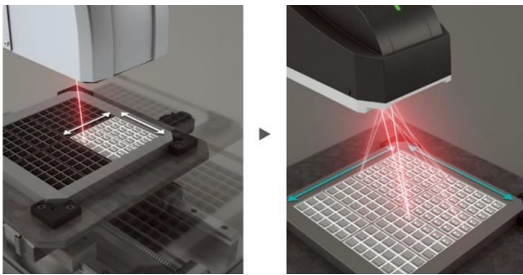


Model	V810i S3
System controller	Integrated controller with 8 Core Intel Xeon processors
False Call rate	500-1000ppm
Minimum Features Detection Capability	Joint Pitch
Maximum PCB Size (L x W)	725mmx482.6mm (28.5"x19")
Minimum PCB Size (L x W)	63.5mmx63.5mm (2.5"x 2.5")
Maximum PCB inspectable area	725mmx474.9mm (28.5"x18.7")
Maximum PCB thickness	7mm (276 mils)

LASER MARKING SYSTEM & TRACEABILITY



- S460 series is an Inline Laser Marking machine (Barcode engraving machines) specifically designed to laser mark PCBs with high positional accuracy and repeatability.
- It is capable of handling large format heavy PCBs, ultra-thin and flexible printed circuit board assemblies (PCBA).
- The system is designed for High-Speed laser marking of formats ranging from 1D barcodes, 2D Matrix, QR codes and human readable characters as well as Image formats.
- With available in machine scanning each mark can be verified before being released to down stream processes.



The laser head inside the machine, it working with the a head moving in X and Y axes, the laser head marks on the objects ,and it is available to mark the 1D/2D codes, chargers and logos on the surface of materials.

With a large marking area, our laser system is available to mark multiple target at once cover a larger area or a higher Quantity of products, which allows for improved production efficiency. (Optional)

Model		S-460
PCB size (L*W)		50x50mm-500x460mm
Line	Clearance	Upper: 25mm and down 25mm
	PCB thickness	0.6mm-6mm
	Transport heights	900+/-20mm (or specify)
	Flow direction	Left to right, right to left (as per customers request)
Machine dimensions		W860*D1440*H1780mm
Weight		720KG

MULTI MAGAZINE LOADER VANSTRON AUTOMATION



- Stepper motorized type pusher to enhance working stability.
- Exchangeable magazine from the rear of magazine.
- Pusher position adjustable to Centre for the boards.
- Tower-light display for machines working status.
- Magazine infeed and outfeed are automatically.
- Flexible platform to suit standard magazines.
- Use the friendly touch screen panel.
- driving by motor on the platform.
- Selectable pitch settings.
- SMEMA compatible .

Model	Max. PCB (L*W) MM	Min PCB (MM)	Machine Dimensions (L*W*H) MM	Magazine size
SL-250M-E	330*250	50*50	1265*740*1650	355*320*563
SL-330L-E	440*330		1580*830*1650	460*400*563
SL-390L-E	530*390		1800*950*1650	535*460*570
SL-460L-E	535*460		1800*1020*1650	535*530*570

MULTI MAGAZINE UNLOADER VANSTRON AUTOMATION



- Stepper motorized type pusher to enhance working stability.
- Exchangeable magazine from the rear of magazine.
- Pusher position adjustable to Centre for the boards.
- Tower-light display for machines working status.
- Magazine infeed and outfeed are automatically.
- Flexible platform to suit standard magazines.
- Use the friendly touch screen panel.
- driving by motor on the platform.
- Selectable pitch settings.
- SMEMA compatible .

Model	Max. PCB (L*W) MM	Min PCB (MM)	Machine Dimensions(L*W*H) MM	Magazine size
ASUL-250M	330*250	50*50	1010*1470*1650	355*320*563
ASUL-330L	440*330		1210*1700*1650	460*400*563
ASUL-390L	530*390		1390*2110*1650	535*460*570
ASUL-460L	535*460		1390*2110*1650	535*530*570



INSPECTION & LINKING CONVEYOR VANSTRON

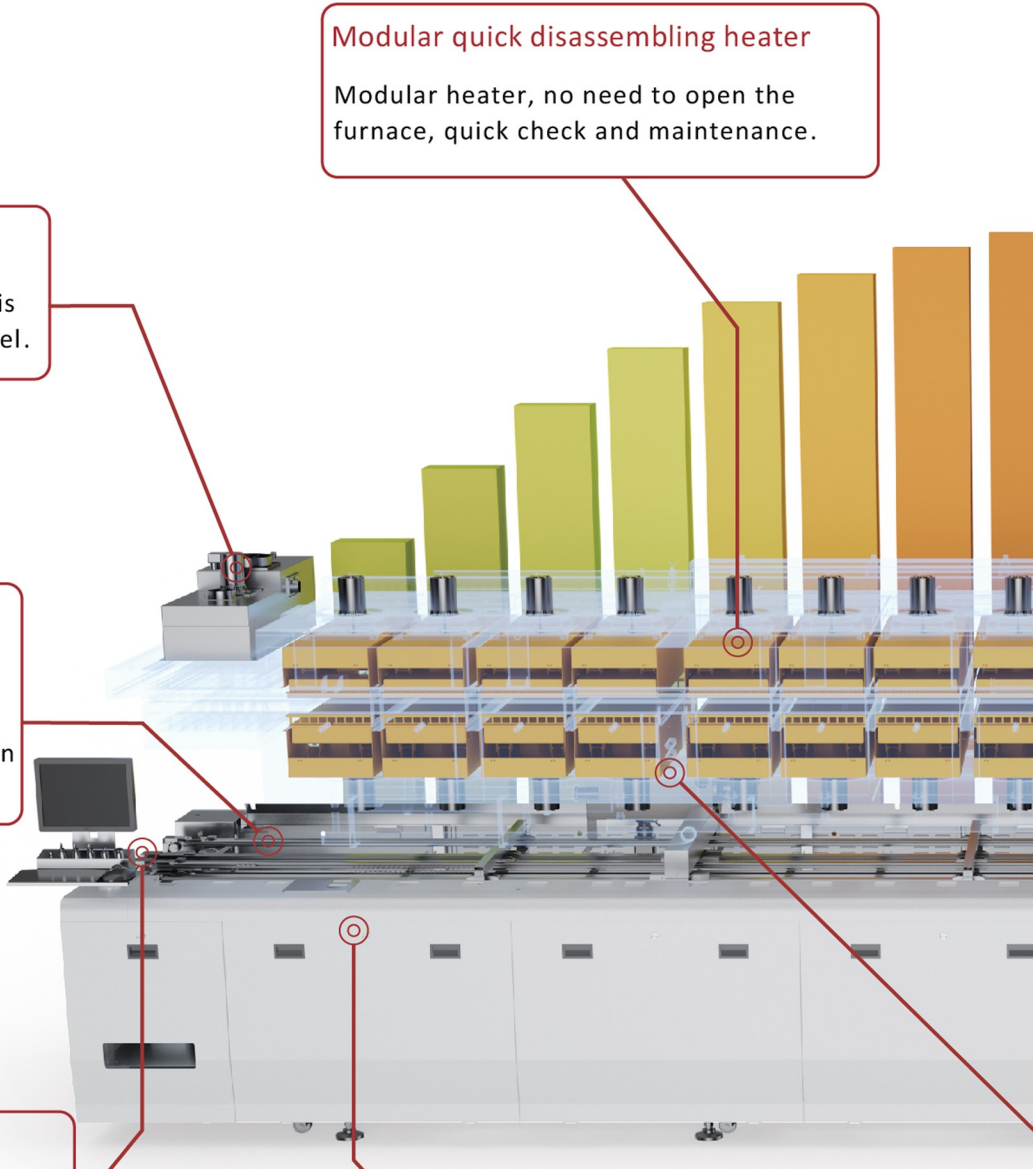


- Linking Conveyor Vanstron Using SMEMA interface, this unit successfully links any SMT machine, this system can work on inspection & linking mode.
- Conveyor width adjustment by using hand crank.
- LED light overhead frame (inspection conveyor).
- Conveyor motor is using with stepper motor.
- PCB flow direction flows can be customized .
- By-pass mode, inspection mode selectable .
- Conveyor width adjustment: crank wheel .
- Heavy bottom design to prevent shifting .
- Mitsubishi PLC program control .
- Center PCB stop position .
- SMEMA compatible .

Optional:

- R485 / RS-232 communication follow me system.
- Inspection interval can be setting by software.
- Automatically conveyor width adjustment.
- Motorized conveyor width adjustment.
- Touch screen panel .
- Barcode scanning .
- Cooling fan .

Model	PTB-460SE-1000 IN
Machine dimension	Length (mm) *950mm *950mm (L*W*H) Length is available for 500mm,600mm,800mm,1000mm,1500mm,2000mm
Weight	80KG (depends on different length of conveyor)
PCB size	500mm *460mm (L*W)
Transfer heights	900mm+/-50mm
PCB thickness	0.5mm-2.5mm
PCB edge support	3mm



Modular quick disassembling heater
Modular heater, no need to open the furnace, quick check and maintenance.

Exhaust discharge channel
The Exhaust between the furnaces is discharged through a special channel.

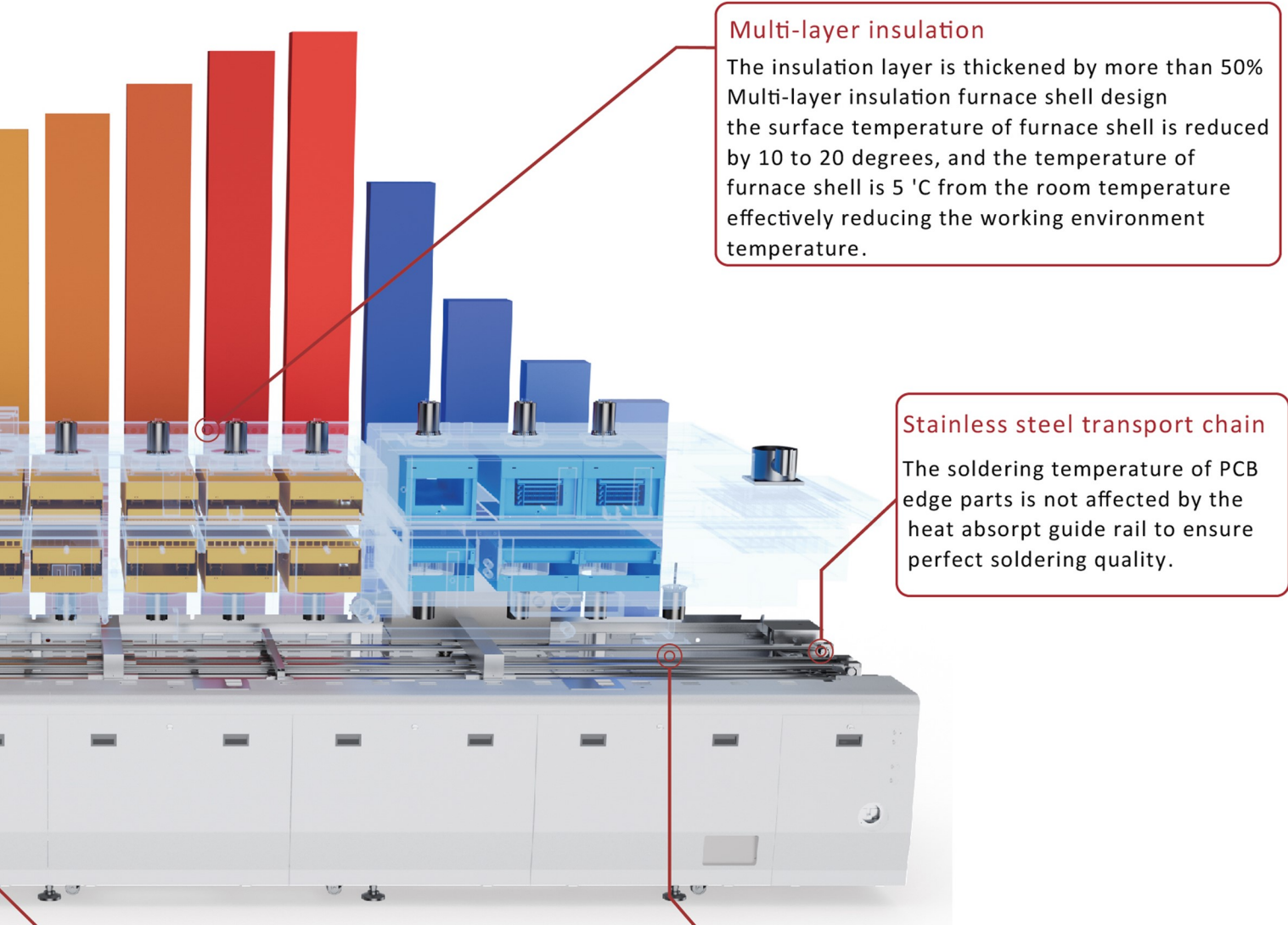
Double guide rail structure
The double guide rail structure can effectively improve production efficiency and save energy consumption and production costs.

Entrance board entry stop device
When the equipment does not reach the production setting state, the product is not allowed to enter the furnace to prevent misoperation from causing soldering defects.

Synchronous width adjustment drive shaft
The design of synchronous width adjustment drive shaft ensures the consistency of guide rail transmission and avoids the bell mouth of guide rail.



HIGH END, HIGH QUALITY REFLOW OVEN



Multi-layer insulation

The insulation layer is thickened by more than 50% Multi-layer insulation furnace shell design the surface temperature of furnace shell is reduced by 10 to 20 degrees, and the temperature of furnace shell is 5 'C from the room temperature effectively reducing the working environment temperature.

Stainless steel transport chain

The soldering temperature of PCB edge parts is not affected by the heat absorpt guide rail to ensure perfect soldering quality.

Flux recovery system (nitrogen furnace)

Flux recovery device in heating zone
tool-free dismountable maintenance design
Multi-layer filtered flux recovery tank.
(TEA series nitrogen furnace)

Stainless steel transport chain

Four sets of guide rail width adjustment main drive system are equipped as standard to ensure the parallelism of the guide rail. The surface of guide rail is hard treated, and the service life is increased by 5 times; The return of the transport chain is designed as a guide rail to avoid unstable.



Flux recovery system (Level 1)



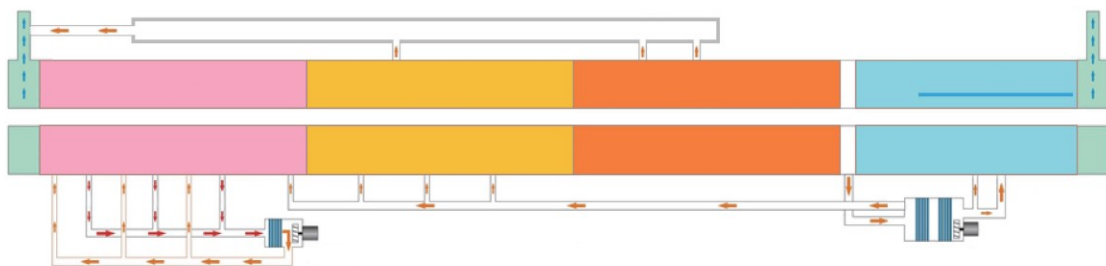
A flux recovery tank is arranged at the top of the heating zone. The flux recovery system arranged at the top of the cooling area includes the ice water condenser and the filter screen to filter and recover the flux. The flux recycling box arranged at the bottom between the soldering zone and the cooling zone is returned to the furnace for recycling after filtration of gas. (STD)

Flux recovery system (Level 2)



The flux recovery box arranged at the bottom of the preheating area, with built-in ice water condenser and filter screen, condenses the gas in the preheating area and filters the flux for recycling. The gas is filtered and returned to the cooling furnace for recycling. (option)

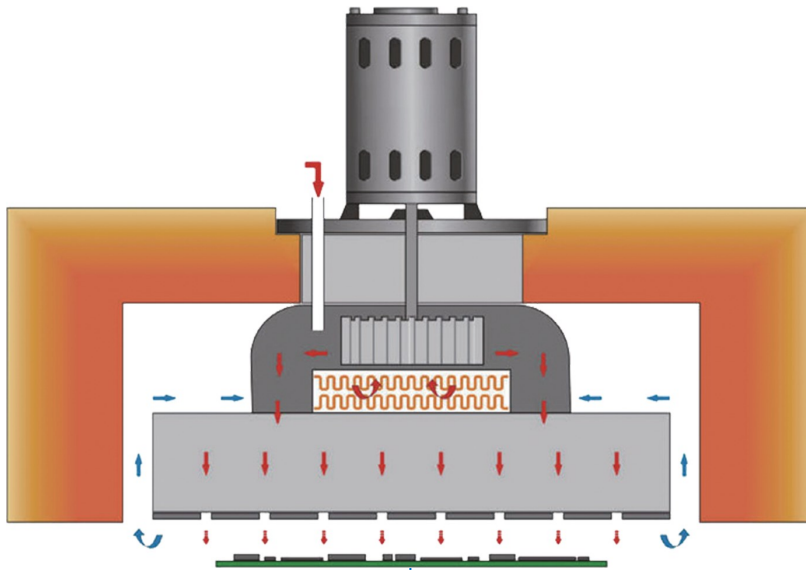
Flux recovery system (Level 3)



Flux recovery system (Level 3) :A flux recycling box is arranged at the bottom between the soldering zone and the cooling zone, with two built-in ice water condensers and filter screens to condense the gas in the reflux zone and filter the flux for recycling. After filtering the gas, it will return to the oven of the preheating zone and cooling zone for recycling (option)



Air duct structure diagram



Double Rail at the Same Speed

Double rail at the same speed, double production capacity of single machine cost

Double Rail and Double Speed

Dual rail, dual speed, different products are carried out at the same time (option)



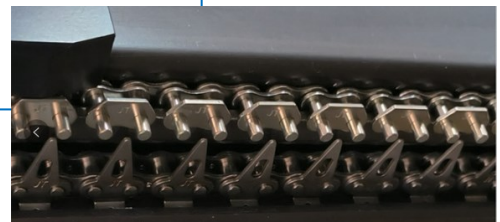
Heavy Duty Rail system

Heavy duty Level 1: Double row chain, 3kg/ IM
 Heavy duty Level 2: Reinforcement level (double row chain+ roller)
 Heavy duty Level 3: Heavy duty level
 (heavy duty single row chain+ roller+ heavy duty structure design)



Central support rail system

The central support system is designed with a recovery mechanism which can be collected when not in use



JT JT

LEAD FREE REFLOW OVEN JT



TEA 800



JTR 1000



KTD 1204



LEAD FREE REFLOW OVEN JT

Model	TEA-800	JTR-1000	KTD-1024
Heated Length	3110mm	3890mm	4640mm
Dimensions (L×W×H)	5220 x 1430 x 1530mm	5520 x 1430 x 1530mm	7313 x 1725 x 1630mm
Net Weight	Approx. 2250KG	Approx. 2400KG /2500KG	Approx. 4150KG /4300KG
Exhaust Volume	10 m ³ /min×2 Exhausts		
Source Power	AC 380V3Φ5w 50/60Hz (optional AC220V3Φ)		
Power	Starting: 30KW	Starting: 30KW/32KW	Starting: 40KW/42KW
Power Consumption	9KW	9KW/10KW	11.5KW/13KW
Temp. Range	Room temperature -300°C		
Max. Width of PCB	400mm (Option: 460mm)		
Component Height	Top 30mm/Bottom 25mm		
Conveyor Direction	Left to Right (Option: Right to Left)		
Fixed Rail Side	Front Rail Fixed (Option: Rear Rail Fixed)		
Conveyor Height	900±20 mm		
Conveyor Speed Range	300-2000mm/min		
No.of heating zones	Top 8, Bottom 8	Top 8, Bottom 8	Top 12, Bottom 12
No.of cooling zones	Top 2, Cooling Zones	Top 3, Bottom 3	Top 4, Bottom 4
Control System	WIN10+Computer+PLC		
Conveyor System	Single Rail+ Mesh	Rail+ Mesh	Rail+ Mesh
Chain Structure	Single Side link Avoid Block	Dual-link Avoid Block	Dual-link Avoid Block
Cooling System	Forced Air Cooling	Forced Air Cooling	Chiller Cooling System

JT NIS-450 | SELECTIVE SOLDERING MACHINE



- Selective wave soldering meets the current demand for high standard welding performance, reflecting the flexibility and scalability of the welding process.
- The third generation JT on line selective wave soldering, with new innovative features suitable for future needs.
- Modular systems have multiple configuration possibilities and can ideally be customized to meet various needs.
- The most efficient selective soldering module.
- Sectional modular transmission structure.

Top hot air convection preheating



Bottom infrared preheating



Automatic cleaning nozzle (option)



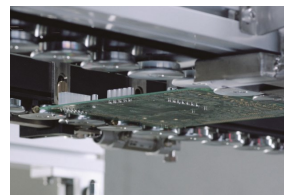
Automatic wire feeder (option)



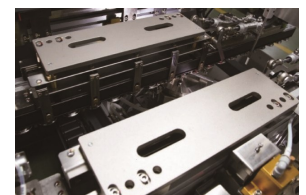
Automatic crest correction

The welding module is driven by an electromagnetic pump, Selective wave soldering can be configured with up to 3weld-ing modules, each module is equipped with dual tin cylinders corresponding to larger production capacity requirements.

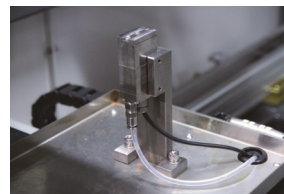
Model	NIS-450
Dimension LxWxH	2600x1800x1650mm (1-2 pot)
PCB Width	60-450mm
PCB Length	120-500mm
PCB Top Space	Max : 120mm
PCB Bottom Space	Max : 50mm
PCB Edge Size	4mm
Conveyor Height	900±20



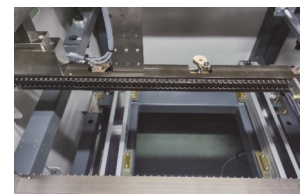
XYZ clamping



High precision pulse spray system



Chain transportation



Roller transportation

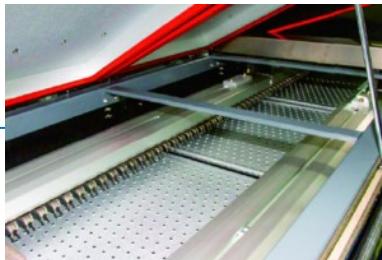


JT SE SERIES LEAD-FREE DUAL WAVE SOLDERING SYSTEM



- Module design of spray fluxer system and the design of nozzle always be perpendicular to rail, which can make sure the flux penetrates PCB easily.
- The level of flux container is controlled by non-contact sensors to ensure no corrosion and longer life.
- Forced air cooling system to attain the cold-down slope as per lead-free required.
- The assistant pressure device nearby the entrance to prevent the PCB from slipping.
- Exhaust adopt centrifugal fan with double filters to avoid any flux drop to PCB.

Hot Air Preheat



Solder Pot & Cooling



- **New solution of preheating:**

The hot air preheating u- shaped heater has a long service life, and reduces maintenance downtime. Internal reinforcement insulation plus an optional external protection device can effectively reduce the heat loss, energy-saving up to 20% compared with traditional equipment. Lower body temperature with better work environment.

- **External Spray Fluxer, safety, cost, space, and maintenance problems resolved:**

External and independent spray control system, ensure the safety and clean, easy to operate and maintenance; Transportation of new type titanium alloy heavy-duty claw, sectional guide rail design, stainless steel strip supported in guide rail, long life; The solder pot adopts special materials, Anti corrosion coating on surface; Adopt imported precision nozzle, atomization uniformity, high efficient.

- **The large promotion of solder pot:**

Nozzle quick released, reduce maintenance time, 2 hours to a few minutes; Grid type of mesh, reduce the mesh block by solder dross monthly maintenance extended to six months; Optional auto solder supplying device, reduce the influence of wave height caused by a drop of solder level.



SE58-M955LV LOW VOIDING LEADED SOLDER PASTE

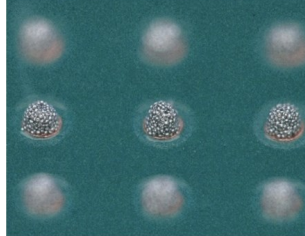


For General Applications

- Alloy Composition SE: SN63PB37
- Good Wetting and Low Voiding

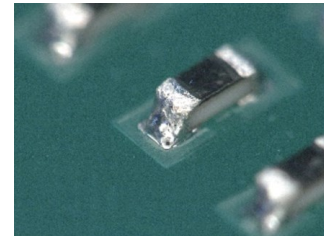
LOW VOID

Deposit Shape (10th print after 200 strokes)



0.25mm CPS

Superior Wettability (on small-sized components)



0603R

SS58-M955LV LOW VOIDING LEADED SOLDER PASTE

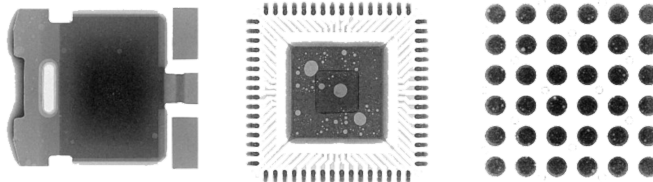


For General Applications

- Alloy Composition SS: SN36PB2AG
- Good Wetting and Low Voiding

LOW VOID

Voiding result of different components



SSA48-M955 ANTI-TOMBSTONING LEADED SOLDER PASTE

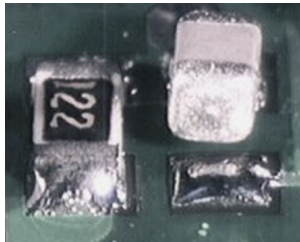


Effectively Prevents Occurrence of Tomb-Stone

- Alloy Composition SE: SN36.8PB0.4AG0.2SB
- Anti-Tombstoning Twin-Peak Melting Point Solder Paste

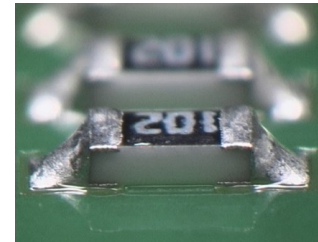
Anti-Tombstoning

Without SB



Occurrence of tombstone defects

SSA48-M955



Prevention of tombstone defects

KOKI



S01XBIG.S1XBIG LOW COST HIGH RELIABILITY ALLOYS



Low Ag Content yet Higher Reliability Than Sac305

- Combination of Solid Solution and Precipitation Strengthening Metal Element Ensure High Thermal-Mechanical Stress Resistance to SAC305
- Flux Type: ROLO (IPC J-STD-004B/C)

Alloy Composition : S01XBIG: SN0.1AG0.7CU1.6BI+NI

S1XBIG: SN1.1AG0.7CU1.8BI+NI



Conventional



S1XBIG58-HF1100-3

T4AB58-HF360 HIGH PERFORMANCE LOW MELTING POINT ALLOYS



Perfect Melting and Wetting at Low Reflow Temperature

- Low Melting Point of 138-140° C
- Prevents Drying for Stable Performance in Continuous Printing.
- Flux Type: ROLO (IPC J-STD-004B/C)

Alloy Composition : T4AB58 SN0.4AG57.6BI



S3X58-HF1100-3 VERSATILE FEATURES IN ONE FORMULATION

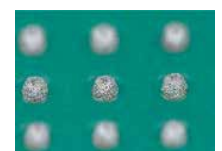


Multi-Features Halogen free Lead-free Solder Paste

- Exhibits excellent print quality response with >1hour stencil idle time
- Powerful Wetting as Good as Halogen Containing Solder Paste
- Realizes Low Voiding with BTCs (e.g., Pw.Tr., QFN, LGA) and BGA
- Shelf Life is 12 Months in Refrigerated Storage
- Flux Type: ROLO (IPC J-STD-004B/C)



Powerful Wetting



Excellent Printability

Alloy Composition : S3X58 SN0.3AG0.5CU



TetraTronik

KOKI JS-3000V-3 | WATER BASED WAVE SOLDERING FLUX

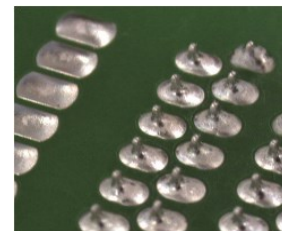


- Flux JS-3000V-3 Water Based uses a combination of solids such as rosin and special resin.
- Non-hazardous product reduces transport costs and storage space for hazardous materials.
- Ultra-low residue for an excellent aesthetic appearance.
- Easier management being non-dangerous goods.
- VOCs free water based wave soldering flux.
- Prevents solder splattering and bridging.
- Solved problems of water-based flux.
- Completely pure water solvents.
- High electrical reliability.

Conventional



JS-3000V-3

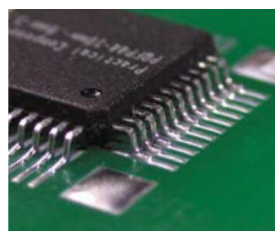


KOKI JS-EU.01 | WAVE SOLDERING FLUX | No CLEAN

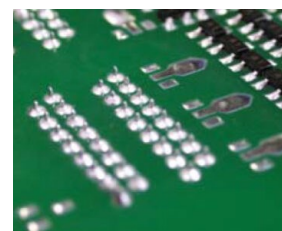


- New low solids formulation drastically REDUCES bridging, blow holes and solder balling.
- Significant IMPROVEMENT in through hole filling with OSP boards.
- Extremely LOW residue despite a powerful soldering action.

QFP (0.8mm; 44pin)



Connector & Transistor



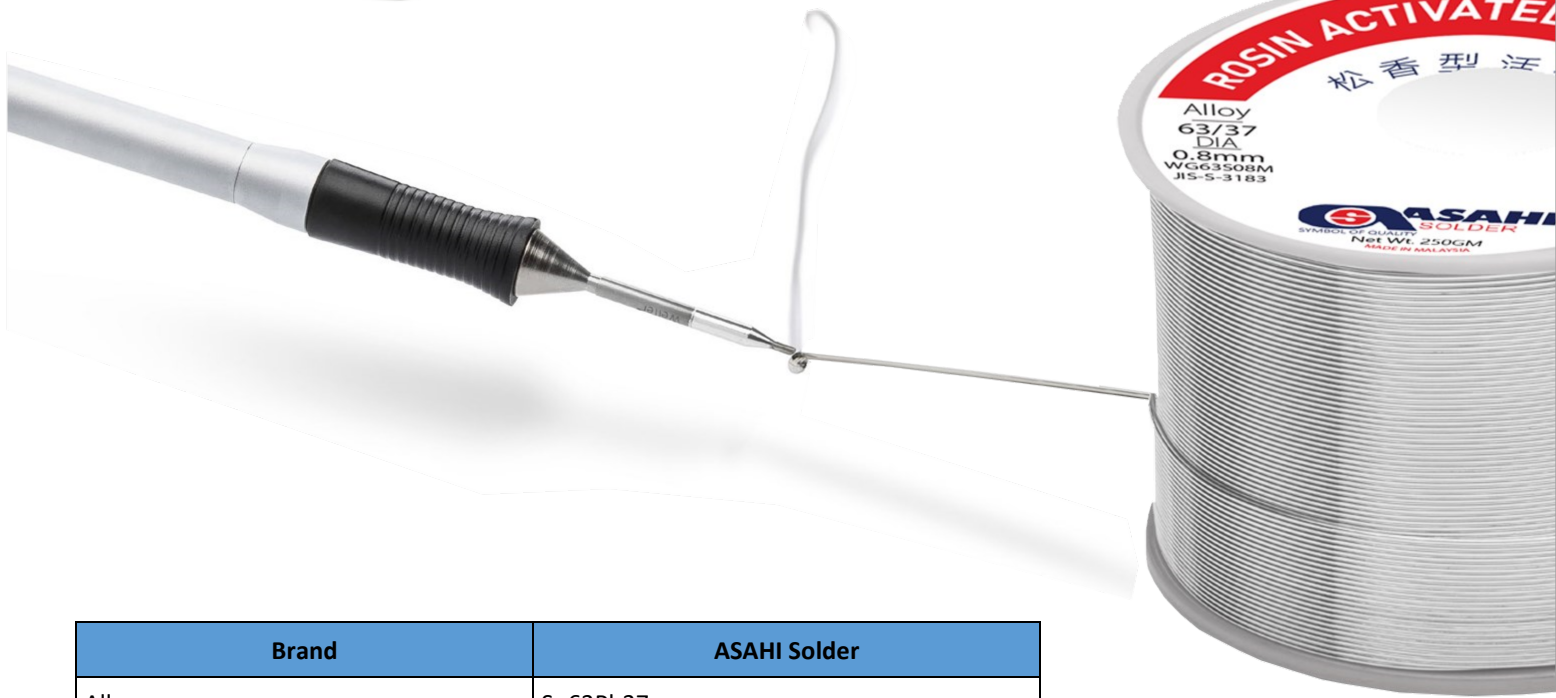
Product	JS-EU.01 KOKI Flux	Flux JS-3000V-3 Water Based
Appearance	Colorless clear liquid	Liquid Flux for Wave / Selective Soldering
Specific gravity (at 20°C)	0.814	1.015
Non-volatile content (%)	4.0	5.0
Halide content (%)		0
Flux type		ROLO



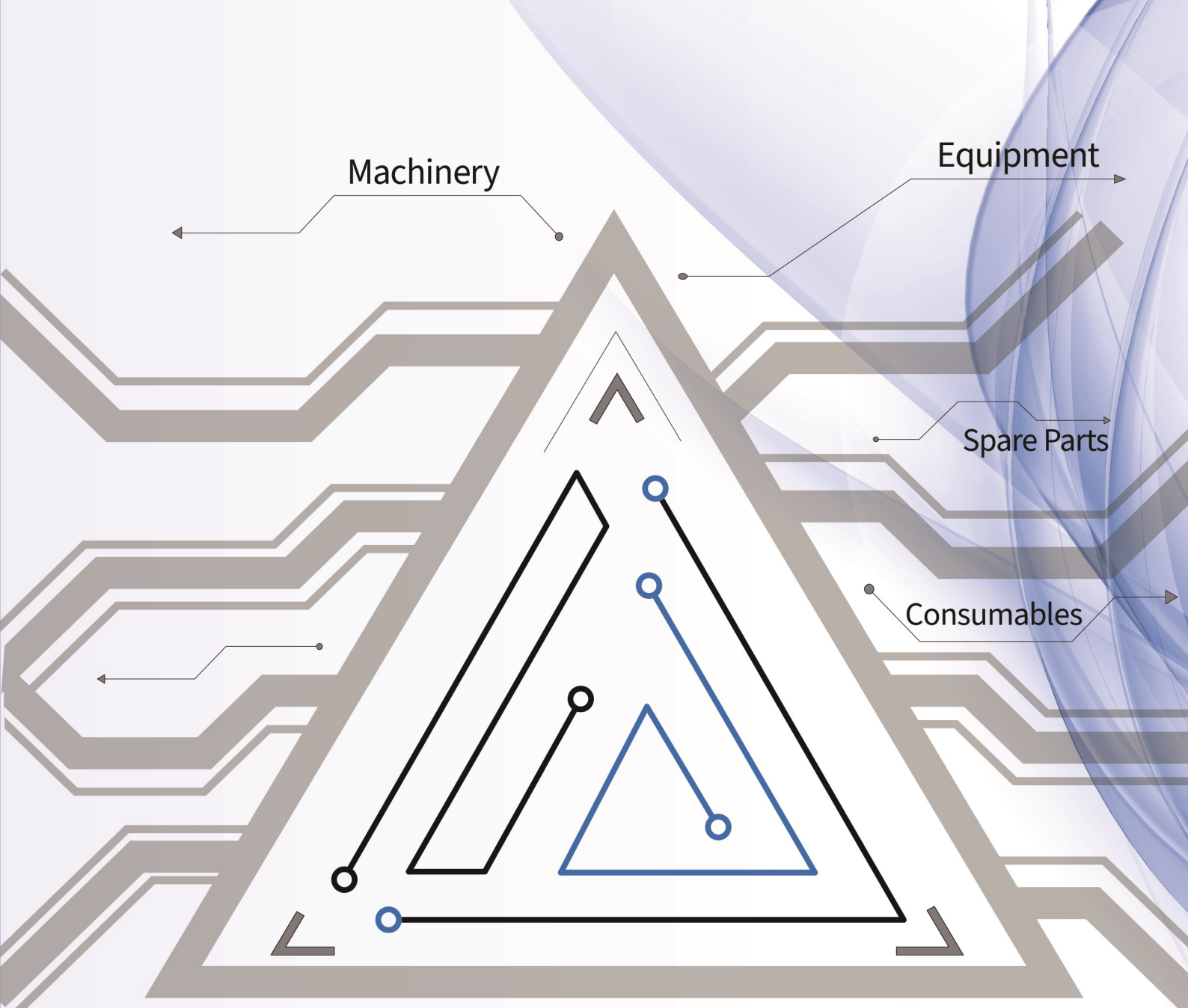
ASAHI 63/37 CF60 SOLDER WIRE | HIGH QUALITY NO CLEAN



- CF60 gives a non-corrosive, minimal, clear yellow tinted residue due which exhibits excellent electrical and thermal insulation properties.
- Sn63Pb37 CF60 no clean core flux solder wire is easy to use for automatic, manual, rework.
- Sn63Pb37 CF60 is highly recommended for use in the no-clean process environment.
- melts fast and performs very well and Super Fast Melting With Highest Performance.



Brand	ASAHI Solder
Alloy	Sn63Pb37
Melting Point	320-400 °C
Soldering Time	1 – 3 S
Flux Content	2.0~3.0 +/- 0.3wt%
Flux Activity Classification	ROLO
Halide Content	Not free
Copper Mirror Test	Classified as "L", Pass
Available Diameter	0.3 – 3 mm
Available reel sizes	100-250-500- 1000 gr
Type	Asahi Cored Solder Wire



TetraTronik

Tetratronik is a total solution provider in electronic industry. Machinery, Consumables, Components and equipment is our main activities. Our team are highly skilled persons with more than 10 years' experience in electronic industry in Turkey and all-over Middle East. Having a good name and close relations with well-known suppliers around the world will help us to improve and grow our business fast. By providing employees with on-going training, we are always enhancing our knowledge and skills to serve our customers in its best way. Our Vision is to become one of the leading suppliers in the electronics industry in the region by developing customer relationships, with providing high quality products and first-class services.



+90 5324864015



info@tetratronik.com



+90 5324794016



FATİH SULTAN MEHMET MAH. ŞİİR SK.
NO: 10 İÇ KAPI NO: 85 ÜMRANİYE/ İSTANBUL