



Machine List

Type	Manufacturer	Model/Name	Main Functions	Features & Capabilities
TEST EQUIPMENT				
AOI	Nordson Yestech	FX-12-110	Automated optical inspection	Inline 5 Megapixel system with 12 micron High Magification Lens
AOI	Yamaha	YSIV	Automated optical inspection	Inline High Speed II Hybrid AOI System 2D+Z-axis+4D+3D
ICT	Teradyne	Z1888	Analog/digital PCB tester	Value and tolerance verification including diode check
ICT	Teradyne	Z1890	Analog/digital PCB tester	Value and tolerance verification including diode check
Optical Inspection	Keyence	IM-7030	Optical Comparator	Image dimension measurement system
X-Ray	CR Technology	CRX 1000	Real time X-ray imaging	BGA, Micro BGA, Semi Conductor X-ray inspection and PCB trace anomalies
X-Ray	CR Technology	CRX 2000	Real time X-ray imaging	BGA, Micro BGA, Semi Conductor X-ray inspection and PCB trace anomalies
X-Ray	Visiconsult	XRHCount	Component Counter	Contactless SMD-Component Counter
SMT EQUIPMENT				
Adhesive Dispenser	Asymtek	Millennium	Surface mount chip bonder application	Non-contact dot dispensing, rated for 0603 dot dispensing with +/- .025mm repeatability
Coating Machine	Asymtek	SL 940 E	Conformal coating of PCB's	Consistent uniform dispensing of conformal coating materials
Convection Oven	Vitronics Soltec	XPM2 940	Solder paste reflow/chip bonder cure	9 heat zones, 4 cooling zones, equipped with N2 blanketing & polar cooling
Convection Oven	Vitronics Soltec	XPM3 940	Solder paste reflow/chip bonder cure	9 heat zones, 4 cooling zones, equipped with N2 blanketing & polar cooling
Convection Oven	BTU	Pyramax 125N	Solder paste reflow/chip bonder cure	10 heat zones, 4 cooling zones, equipped with N2 blanketing & polar cooling
Convection Oven	Heller	936MK5	Solder paste reflow/chip bonder cure	10 heat zones, 4 cooling zones
Laser Marking	Nutek	NTM 4910XL	Marking PCB assemblies	Ability to mark and verify 2D label codes, ability to etch human readable text onto the PCB. Traceability marking.
Pick & Place	Philips Assembleon	iFlex	Surface mount component placement (High Speed)	01005 through BGA, QFP's up to 120mm x 52 mm, up to 142 feeder capacity 50K CPH
Pick & Place	Philips Assembleon	MG-1 R	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity
Pick & Place	Yamaha	YSM20	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity 65K CPH
Pick & Place	Yamaha	YSM20R	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity 95K CPH
Pick & Place	Yamaha	YS24	Surface mount component placement (High Speed)	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity
Screen Printer	Yamaha	YCP10-S	Solder paste printing application	Fine pitch down to 0.012in 0.3mm pitch
Screen Printer	DEK	Horizon 03	Solder paste application	Fine pitch down to 0.012in 0.3mm pitch
Stencil Washer	EMC Global	Spirit 30 IPA	Isopropyl Alcohol based Printer Stencil cleaner	Front loading, innovative pneumatic spray system 31.5" x 30" x 3" Envelope Size
THROUGH HOLE EQUIPMENT				
Selective Solder	Ace-Protech	KISS-101B	Flexible automated selective soldering of T/H components	Selective fluxing, nitrogen delivery system, 12"x12" work area, fiducial alignment.
Wash	Aquastorm	200	Aqueous PCB cleaner	DI wash, rinse & air-knife dry zones
Wash	Technical Devices	NuClean Poly SMT 318	Aqueous PCB cleaner	DI wash, rinse & air-knife dry zones
Wave Solder	Vitronics Soltec	Delta 3	Automated T/H & SMT component wave soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy
Wave Solder	Vitronics Soltec	Delta 5	Automated T/H & SMT component wave soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy, select X de-bridging tool