

Manufacturer	Model/Name	Main Functions	Features & Capabilities	Location
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### Test Equipment

AOI	Nordson Yestech	FX-12-110 (Qty 3 machines)	Automated component inspection	Inline 5 Megapixel system with 12 micron High Magnification Lens	Reno, Nevada
Flying Probe	SPEA	4040C	Multi Mode PCB Testing	Production, Prototype, boards with accessibility problems, high production volume	Reno, Nevada
X-ray	CR Technology	CRX 1000	Real time X-ray imaging	BGA, Micro BGA, Semi Conductor X-ray inspection and PCB trace anomalies	Reno, Nevada
AOI	Nordson Yestech	FX-12-110 (Qty 10 machines)	Automated component inspection	Inline 5 Megapixel system with 12 micron High Magnification Lens	Empalme, Mexico
ICT	Teradyne	Z1888 (Qty 1 machine)	Analog/digital PCB tester	Value and tolerance verification including diode check, open circuit check, and short circuit checking.	Empalme, Mexico
ICT	Teradyne	Z1890 (Qty 4 machines)	Analog/digital PCB tester	Value and tolerance verification including diode check, open circuit check, and short circuit checking.	Empalme, Mexico
X-ray	CR Technology	CRX 2000	Real time X-ray imaging	BGA, Micro BGA, Semi Conductor X-ray inspection and PCB trace anomalies	Empalme, Mexico

### SMT Equipment

Convection Oven	Vitronics Soltec	XPM2 940	Solder paste reflow/chip bonder cure	9 heat zones, 4 cooling zones, equipped with N2 blanketing & polar cooling	Reno, Nevada
Convection Oven	Vitronics Soltec	XPM3 940 (Qty 2 machines)	Solder paste reflow/chip bonder cure	9 heat zones, 4 cooling zones, equipped with N2 blanketing & polar cooling	Reno, Nevada
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.	Reno, Nevada
Pick & Place	Philips Asmbleon	iFlex	Surface mount component placement (High Speed)	01005 through BGA, QFP's up to 120mm x 52 mm, up to 142 feeder capacity	Reno, Nevada
Pick & Place	Philips Asmbleon	MG-1 R (Qty 2 machines)	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity	Reno, Nevada
Pick & Place	Yamaha	YG100B (Qty 2 machines)	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity	Reno, Nevada
Screen Printer	DEK	Horizon 03i (Qty 4 machines)	Solder paste application	Fine pitch down to 0.012in 0.3mm pitch	Reno, Nevada
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	Reno, Nevada
Adhesive Dispenser	Asymtek	Millennium (Qty 2 machines)	Surface mount chip bonder application	Non-contact dot dispensing, rated for 0603 dot dispensing with +/- .025mm repeatability	Empalme, Mexico
Convection Oven	Vitronics Soltec	XPM2 820 (Qty 1 machine)	Solder paste reflow/chip bonder cure	8 heat zones, 2 cooling zones, designed to process double sided PCBs	Empalme, Mexico
Convection Oven	Vitronics Soltec	XPM2 940 (Qty 4 machines)	Solder paste reflow/chip bonder cure	9 heat zones, 4 cooling zones, designed to process double sided PCBs	Empalme, Mexico
Convection Oven	Vitronics Soltec	XPM2 1030 (Qty 4 machines)	Solder paste reflow/chip bonder cure	10 heat zones, 3 cooling zones, designed to process double sided PCBs	Empalme, Mexico
Laser Marking	Nutek	NTM 4910XL (Qty 1 machine)	Marking PCB assemblies	Ability to mark and verify 2D label codes, ability to etch human readable text onto the PCB. Traceability marking.	Empalme, Mexico
Pick & Place	Philips Asmbleon	MG-1 R (Qty 8 machines)	Surface mount component placement	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity	Empalme, Mexico
Pick & Place	Philips Asmbleon	Topaz XII (Qty 2 machines)	Surface mount component placement	0201 through BGA, QFP's up to 32mm x 32 mm, up to 90 feeder capacity	Empalme, Mexico
Pick & Place	Yamaha	YS24 (Qty 8 machines)	Surface mount component placement (High Speed)	01005 through BGA, QFP's up to 100mm x 45 mm, up to 96 feeder capacity	Empalme, Mexico
Screen Printer	DEK	Horizon 03 (Qty 9 machines)	Solder paste application	Fine pitch down to 0.012in 0.3mm pitch	Empalme, Mexico
SPI	CyberOptics	SE500	Post print solder paste inspection	3D Solder inspection, down to 01005 and micro BGA component size with volume and area measurement capability	Empalme, Mexico
Stencil Washer	Austin American Technology Corp	SK810 (Qty 1 machine)	Water based surface mount stencil cleaner	Top loading with automated wash cycle. Fits standard 29in x 29in stencil frame	Empalme, Mexico

### Conformal Coating Equipment

Coating Machine	Asymtek	SL 940 E (Qty 2 machines)	Conformal coating of PCB's	Consistent uniform dispensing of conformal coating materials	Empalme, Mexico
Coating Machine	Asymtek	C-740 (Qty 2 machines)	Conformal coating of PCB's	Consistent uniform dispensing of conformal coating materials	Empalme, Mexico
Coating Machine	PVA	PVA 1500 (Qty 2 machines)	Conformal coating of PCB's	Consistent uniform dispensing of conformal coating materials	Empalme, Mexico
Curing Oven	Asymtek	UV612 (Qty 4 machines)	In line ultraviolet curing oven	Modular configuration with a cooler operating temperature	Empalme, Mexico
Curing Oven	PVA	U Series (Qty 2 machines)	In line ultraviolet curing oven	Modular configuration UV light cure oven	Empalme, Mexico

### Through Hole Equipment

Wave Solder	Ersa	EWS 500	Automated T/H & SMT component wave soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy	Reno, Nevada
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	Reno, Nevada
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.	Reno, Nevada
Wash	Aquastorm	200	Aqueous PCB cleaner	DI wash, rinse & air-knife dry zones	Reno, Nevada
Pin Inserter	Tyco	P300	Automated pin insertion into PCB substrates	CNC based insertion processing of reeled pins down to 0.2in pitch	Empalme, Mexico
Ultrasonic Wash	SMarT Sonic	1550	Ultrasonic cleaner	Heated ultrasonic non contact cleaning of pallets fixtures and stencils	Empalme, Mexico
Wash	Technical Devices	SMT 318 (Qty 1 machine)	Aqueous PCB cleaner	DI wash, rinse & air-knife dry zones	Empalme, Mexico
Wash	WestKleen	WestKleen (Qty 1 machine)	Aqueous PCB cleaner	DI wash, rinse & air-knife dry zones	Empalme, Mexico
Wave Solder	Vitronics Soltec	Delta Wave (Qty 3 machines)	Automated T/H & SMT component Lead Free wave soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy Lead Free assemblies only	Empalme, Mexico
Wave Solder	Vitronics Soltec	Delta 3 (Qty 2 machines)	Automated T/H & SMT component Lead Free wave soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy Lead Free assemblies only	Empalme, Mexico
Wave Solder	Vitronics Soltec	Delta Wave (Qty 1 machine)	Automated T/H & SMT Component Leaded Wave Soldering	Spray fluxer, up to 300 C +/- 1% temp accuracy Leaded assemblies only	Empalme, Mexico