



RD-0020 Equipment List including Software Packages

REV 1

Revision Date
04-15-10

Process Leader:
Ed Fitzsimmons

SMT	Qty	Description	Website
	3	MPM Momentum screen printer	www.speedlinetech.com
	3	MPM UP2000 HiE screen printer	www.speedlinetech.com
	6	Assembleon Topaz-XiII SMT pick and place machine	www.assembleon.com
	2	Assembleon MG-1 SMT pick and place machine	www.assembleon.com
	3	Philips Topaz SMT pick and place machine	www.assembleon.com
	1	Heller Convection Reflow Oven 1809 MK III	www.hellerindustries.com
	1	Heller Convection Reflow Oven 1800EXL	www.hellerindustries.com
	3	Conceptronic HVA-70 Convection Reflow Oven	www.conceptronic.com
	2	Heller Convection Reflow Oven 1809S	www.hellerindustries.com

Inspection	Qty	Description	Website
	1	Teradyne Optima 7300 Post Reflow AOI System	www.landrex-us.com
	1	Glenbrook Technologies Jewel Box 70T X-ray machine	www.glenbrooktech.com
	1	Glenbrook Technologies RTX-113 X-ray machine	www.glenbrooktech.com

Rework	Qty	Description	Website
	1	Air-Vac DRS-25 rework station	www.airvac.com
	1	Pace Craft 25SMD rework and prototyping station	www.pace.com
	2	Pace Thermo Flo system PPS-95	www.pace.com

Wave Soldering	Qty	Description	Website
	1	Electrovert Vectra 450F RoHS Wave Soldering machine w/ USI spay fluxer	www.speedlinetech.com
	2	Technical Devices MP-16 Wave Soldering machine w/ Nordson pulse-spray fluxer	www.technicdev.com



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Cleaning	Qty	Description	Website
	1	Electrovert Aquastorm 200 Board Washer	www.speedlinetech.com
	1	EMC Cyberclean 400 Aqueous Board Washer	www.emcgti.com
	1	EMC Cyberclean 1000 Stencil Cleaner	www.emcgti.com

Test	Qty	Description	Website
	2	Teradyne Z1850VP ATE	www.teradyne.com
	1	Agilent HP3070 Series III ATE	www.Agilent.com
	1	Agilent HP8595E Spectrum Analyzer	www.Agilent.com
	2	CSZ-32 Environmental chambers	www.cszinc.com
	1	Tenney BTS Environmental test chamber	www.tenney.com
	1	Sencore Video Pro VP300	www.sencore.com
	1	Quadtech Sentry 20 AC/DC High Potential Tester	www.quadtech.com
	1	Quadtech Sentry 50 Ground Bond Tester	www.quadtech.com

Wire Bonding	Qty	Description	Website
	1	Kulicke & Soffa 8090 large-area wedge wire bonding machine	www.kns.com
	1	Asymtek Century C-708 Advanced Integrated Circuit Encapsulation system	www.asymtek.com
	1	Advanced Plasma Systems gas plasma cleaning chamber	www.advancedplasma.com
	1	Royce Instruments System 552 Universal Bond tester	www.royceintruments.com
	1	Blue M Electric DCC-1406F Curing oven	www.lindberg-bluem.com
	1	Blue M Electric HDTCF385 Low Temp Freezer	www.lindberg-bluem.com



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Component Storage/ Handling	Qty	Description	Website
	5	White Systems Horizontal Storage Carousel	www.whitesystems.com
	3	White Systems Vertical Storage Carousel	www.whitesystems.com
	1	V-Tek TM-50 Reeling Machine	www.vtekusa.com
	1	V-Tek TM-4450 Automatic Reeling Machine	www.vtekusa.com

Component Programming	Qty	Description	Website
	2	Data I/O 3980xpi Advanced Component Programmer	www.dataio.com
	2	Microchip PM3 Programmers	www.microchip.com
	1	Atmel JTAG ICE mk-II Programmer	www.atmel.com

Pin Insertion	Qty	Description	Website
	1	Autosplice Compact CNC automated pin insertion machine	www.autosplice.com

Software Packages	Qty	Description	Website
	2 seats	Altium Designer	www.altium.com
	1 seat	CAM 350 Gerber editor	www.downstreamtech.com
	2 seats	AutoCAD Lite	www.autodesk.com
	2 seats	Aegis CircuitCam	www.aiscorp.com
	2 seats	Aegis CheckPoint	www.aiscorp.com
	1 seat	Assembleon AMS	www.assembleon.com
	8 seats	ReviewPro for AOI	www.landrex-us.com