



RD-0020 Equipment List including Software Packages

REV 06

Revision Date
01-29-2018

Process Leader:
Ed Fitzsimmons

SMT	Qty	Description	Website
	5	MPM Momentum screen printer	www.speedlinetech.com
	1	MPM UP2000 HiE screen printer	www.speedlinetech.com
	6	Yamaha YSM20 pick and place machine	www.global.yamaha-motor.com/business/smt/
	3	Assembleon Topaz-XiII SMT pick and place machine	www.assembleon.com
	4	Assembleon MG-1 SMT pick and place machine	www.assembleon.com
	3	Philips Topaz SMT pick and place machine	www.assembleon.com
	2	Heller Convection Reflow Oven 1809 MK III	www.hellerindustries.com
	1	Heller Convection Reflow Oven 1800EXL	www.hellerindustries.com
	2	Heller Convection Reflow Oven 1809S	www.hellerindustries.com
	1	Conceptronic HVA-70 Convection Reflow Oven	www.conceptronic.com

Inspection	Qty	Description	Website
	1	YesTech AOI System YTV-FX	www.nordson.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



RD-0020 Equipment List including Software Packages

REV 06

Revision Date
01-29-2018

Process Leader:
Ed Fitzsimmons

Wave Soldering	Qty	Description	Website
	2	Electrovert Vectra ES2 Wave Solder machine	www.speedlinetech.com
	1	Technical Devices MP-16 Wave Soldering machine w/ Nordson pulse-spray fluxer	www.technicdev.com
	1	Pillarhouse Jade Handex Selective Soldering	www.pillarhouseusa.com
	1	On Site Gas N-70-TGN Nitrogen Generator	www.onsitegas.com

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
	1	Aqueous Technology Zero Ion Ionic Cleanliness Tester	www.aqueoustech.com

Routing	Qty	Description	Website
	1	Ge-Tech Semi-Automatic Router ESR-1000	http://www.getecha.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



RD-0020 Equipment List including Software Packages

REV 06

Revision Date
01-29-2018

Process Leader:
Ed Fitzsimmons

Dispensing	Qty	Description	Website
	1	Camalot FX-D Dispenser	www.itweae.com/products/dispensers

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
	1	Blue M Electric 1406 Series Bake-Out Oven	www.thermalproductsolutions.com
	1	Blue M Electric DCC-1406F Curing oven	www.lindberg-bluem.com

Component Programming	Qty	Description	Website
	1	Data I/O 3980xpi Advanced Component Programmer	www.dataio.com
	2	Microchip PM3 Programmers	www.microchip.com
	1	BPM microsystems Flashstream2800	www.bpmmicro.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



RD-0020 Equipment List including Software Packages

REV 06

Revision Date
01-29-2018

Process Leader:
Ed Fitzsimmons

2 seats	Aegis CircuitCam	www.aiscorp.com
2 seats	Aegis CheckPoint	www.aiscorp.com
1 seat	Yamaha P-Tool off-line programming station	www.global.yamaha-motor.com/business/smt/
10 seats	Yestech Offline Review Stations for FX AOI	www.nordson.com