

<b>COMPANY SENSITIVE</b>					
<b>2007 Summit Product Matrix</b>					
Document Number: SPM010107 R0    Effectivity Date: January 1, 2007					
Summit Rework Feature	750	1100	1800	2200	LX
Top Heater Power					
1.6 kW - Focussed Convection Top Heater	S	S	S	S	S
2.4 kW - High Power Focussed Convection Top Heater	NA	O	O	O	O
Gas Flow Controls - Clean Dry Air (CDA) and Nitrogen (N2)					
Single Gas (CDA or N2) Two Stage Filtration & Regulation	S	NA	NA	NA	NA
Dual Gas (CDA & N2) Two Stage Filtration & Regulation	O	S	S	S	S
Top & Bottom Heater Gas Flow Control	S	S	NA	NA	NA
Top Heater High / Low Gas Flow Control	O	O	NA	NA	S
Digital Top Heater High / Medium / Low Gas Flow Control	NA	NA	S	S	NA
Top Heater Gas Saver - (saves CDA or N2 during preheat)	S	S	S	S	S
Top Heater Gas Switching - (CDA & N2 with N2 On LED)	O	O	O	O	O
Top Heater "Cooling Boost"	O	O	O	O	O
NexGen Bottom Heater "Cooling Boost"	NA	NA	O	O	NA
Active Component Cooling - (Positive Flow w/ Fixed Rate)	S	S	S	S	S
Variable Component Cooling - (Positive Flow w/ Flowmeter)	O	O	O	O	O
Top Heater Motion					
Pneumatic Top Heater Travel (Z)	S	S	NA	NA	NA
Motorized Top Heater Travel (Z)	NA	NA	S	S	S
Basic Top Heater Down Stop (Z)	S	NA	NA	NA	NA
Adjustable Top Heater Down Stop (Z)	O	S	NA	NA	NA
Pick-Up Tube Motion					
Motorized Pick-Up Tube Travel (Z)	S	S	S	S	S
Pick-Up Tube Travel Protection (Z)	S	S	S	S	S
Manual 360 Degree Pick-Up Tube Rotation - (Theta Control)	S	S	NA	NA	NA
Motorized 360 Degree Pick-Up Tube Rotation - (Theta Control)	NA	NA	S	S	S
Automatic Component Alignment View Height	S	S	S	S	S
Automatic Component Height Sensing	S	S	S	S	S
Component Pick Locations - (Nest Locations)					
Prism Shuttle Component Nest	S	S	S	S	S
X-Y Table Lower Nest	S	S	S	O	NS
Minimum Component Size / Placement					
0.100" (2.5mm) / <math><0.0020 (-50\mu) +3\sigma</math>	S	S	NA	NA	NA
0.010" (0.25mm) / <math><0.0010 (-25\mu) +3\sigma</math>	NS	NS	S	S	S
High Resolution package (HR)	NA	O	NA	NA	NA
High Resolution Package - (Includes 0.010" (0.25mm) Minimum Component Size, <math><0.0010 (-25\mu) +3\sigma</math> Placement, 3.2-40X Magnification (1X Coupler), High Precision Reticle, Micrometer X-Y Fine Table Adjustment, 3/16" Pick-Up Tube, & High / Low Gas Flow)					
Prism Size (Field of View) / Max. Component Size / Top Side Product Clearance					
2.0" (50mm) Min. Square Field of View / 2.2" (56mm) Top Clearance	S	S	NS	S	NA
2.0" (50mm) Min. Square Field of View / 2.75" (70mm) Top Clearance	NA	NS	NS	NS	NA
2.5" (63mm) Min. Square Field of View / 2.2" (56mm) Top Clearance	NA	NS	S	O	NA
3.15" (80mm) Min. Square Field of View / 2.75" (70mm) Top Clearance	NA	NA	NA	NA	S
X-Y Table w/ Bottom Heater					
18 x 22" X-Y w/ 800 W Convection Tube Bottom Heater	NA	S	NA	NA	NA
18 x 22" X-Y w/ 800 W Convection Plenum Bottom Heater w/ 1.3" Clearance	S	NA	NA	NA	NA
18 x 22" X-Y w/ 2.4 kW Convection Plenum Bottom Heater w/ 1.5" Clearance	O	O	NA	NA	NA
18 x 22" X-Y w/ 4.0 kW Convection Plenum Bottom Heater w/ 1.5" Clearance	NS	O	S	NA	NA
NexGen 18 x 22" X-Y w/ 4.0 kW Convection Plenum Bottom Heater w/ 1.5" Clearance	NA	NS	NS	S	NA
NexGen 22 x 30" X-Y w/ 5.6 kW Convection Plenum Bottom Heater w/ 1.5" Clearance	NA	NS	O	O	NA
24 x 36" X-Y w/ 8.0 kW Convection Plenum Bottom Heater w/ 2.0" Clearance	NA	NA	NA	NA	S
X-Y Table Motion					
Manual X-Y Table Motion	S	S	S	NA	S
Basic X-Y Table Fine Adjust	S	S	NA	NA	NA
Micrometer X-Y Table Fine Adjust	O	O	S	NA	S
Programmable X-Y Table Fine Adjust - (~3" Travel, NexGen)	NA	NA	O	NA	NA
Programmable X-Y Table Motion - (Full Travel, NexGen)	NA	NA	NA	S	NA
Precision Table Locks	S	S	S	NA	S
X-Y Table Miscellaneous Features					
Standard Board Edge Clamps	O	O	S	S	S
Extended Length Board Edge Clamps	O	O	O	O	O
Sliding Board Supports (For Standard X-Y Table)	NA	O	O	NA	S
Bridge Rail Board Supports (For Standard X-Y Table)	O	O	O	NA	NS
Bridge Rail Board Supports (For NexGen X-Y Table)	NA	S	S	S	NA
Board Edge Spacer	O	O	O	S	S
Front Sliding Rail	O	O	O	NA	S
Prism Shuttle Motion					
Manual Prism Shuttle Motion	S	NA	NA	NA	NA
Pneumatic Prism Shuttle Motion	NA	S	S	S	S
Image Display					
17" LCD Monitor & Mount	S	S	S	S	S
Trinocular Microscope and Video Vision System	NA	O	O	O	O
Image Magnification					
5.0 - 30X Optical Zoom w/ Single Lens Imaging	S	NA	NA	NA	NA
2.0 - 20X Optical Zoom w/ Multi Lens & (0.3X, 0.5X Couplers)	NA	NA	NA	NA	S
3.2 - 20X Optical Zoom w/ Multi Lens & (0.5X Coupler)	NA	S	NA	S	NA
3.2 - 40X Optical Zoom w/ Multi Lens & (0.5X, 1.0X Couplers)	NA	O	NA	O	NA
2.0 - 40X Optical Zoom w/ Multi Lens & (0.3X, 0.5X, 1.0X Couplers)	NA	NA	S	NA	O
1 - 4X Digital Zoom	S	S	S	S	S
Image Splitting					
Precision Flat Mirror	O	S	S	S	S
Digital Split Image Capability	S	S	S	S	S
Precision Optical Split Mirror (in addition to flat mirror, if already equipped)	S	O	O	O	S
Image Illumination					
Top & Bottom 4 Sided Incandescent Prism Lighting	S	S	S	S	S
Halogen Work Lamp w/ Magnetic Base	O	O	O	O	O

Summit Feature	750	1100	1800	2200	LX
<b>Computer &amp; Software</b>					
Tower Style PC w/ USB, CDRW, NIC, Keyboard & Trackball	S	S	S	S	S
Microsoft Windows XP Pro Operating System	S	S	S	S	S
SierraMate Rework Software	S	S	S	S	S
"1-2-3- Go" Graphical User Interface (GUI)	S	S	S	S	S
Security Manager Utility - (Users, Groups & Passwords)	S	S	S	S	S
Programmable Component Pick & Place Force (Z)	S	S	S	S	S
Programmable Zero Force Component Removal	S	S	S	S	S
Automated Data & Event Logging	S	S	S	S	S
<b>System Profiling</b>					
Advanced Auto Profile Software	O	S	S	S	S
Real Time Thermal Control - (External TC)	S	S	S	S	S
Thermocouple Inputs - (2-Control, 6-Profile)	S	S	S	S	S
Additional Thermocouple Inputs	NA	O	NS	NS	O
Type K Profiling Thermocouples - (Set of 5)	O	O	O	O	O
IR Temperature Sensing / Profile Trigger	O	O	O	O	O
<b>System Tooling</b>					
Standard Pro, Pro Step, & Mini Series Nozzle - (specify choice)	O	O	O	O	O
Nozzle Storage Rack	O	O	O	O	O
Standard Component Nest - (specify choice)	O	O	O	O	O
1/4" (6.35mm) Diameter Pick-up Tube	S	S	S	S	S
3/16" (4.8mm) Diameter Pick-up Tube - (Required for Mini nozzles)	O	O	S	S	S
2" (50mm) Component Solder Print Station	O	O	O	O	O
2" (50mm) Component Solder Print Station Stencils	O	O	O	O	O
2" (50mm) Component Solder Print Station Nests	O	O	O	O	O
3" (75mm) Component Solder Print Station	O	O	O	O	O
3" (75mm) Component Solder Print Station Stencils	NS	NS	NS	NS	NS
3" (75mm) Component Solder Print Station Nests	NS	NS	NS	NS	NS
1-5mm Component Micro Nozzle Kit	NS	NS	NS	NS	NS
Custom Tooling - (Nozzles, Nest, Stencils, Tubes & other)	NS	NS	NS	NS	NS
<b>Solder Scavenging</b>					
Basic Solder Scavenger - (Manual Heated Nozzle Scavenger)	O	O	O	O	O
Advanced Solder Scavenger - (Includes Basic Scavenger, Programmable X-Y Table Fine or Full Adjustment, Automatic Surface Sensing, Pre-programmed Scavenging Component Libraries, Patterns, Heights, Temperatures and Scan Rates & Consumables Kit)	NA	NA	O	NA	NA
Automated Solder Scavenger - (Includes 600 Watt Automated Scavenger, Automatic Surface Sensing, Pre-programmed Scavenging Component Libraries, Patterns, Heights, Temperatures, Scan Rates & Consumables Kit, uses 2 TCs)	NA	NA	NA	O	NA
Flux Tray - (Component Dipping)	O	O	O	O	O
Additional Basic Scavenger Consumables Kit	O	O	O	O	O
Additional Automated Scavenger Consumables Kit	NA	NA	NA	O	NA
<b>Industry Compliance</b>					
Lead-Free Processing Capability	S	S	S	S	S
System Designed in Accordance with NFPA 79	S	S	S	S	S
System Designed in Accordance with CE and ETL	S	S	S	S	S
System Designed in Accordance with UL	O	O	O	O	O
System Designed in Accordance with SEMI S2	NA	O	O	O	O
Class 10K Clean Room Compatible	O	O	O	O	O
<b>Miscellaneous Features</b>					
Integrated Power Line Conditioning	NS	NS	NS	NS	NS
Rear Mounted External Transformer Shelf	NS	NS	NS	NA	NA
Heater Verification 2/4 - (Systems with up to 4.0kW Bottom Heaters)	O	O	O	O	NA
Heater Verification 5/8 - (Systems with 5.6 or 8.0 kW Bottom Heaters)	NA	NA	O	O	O
Workstand w/ Integrated Keyboard Tray & PC Enclosure	S	S	S	S	S
Leveling Feet	S	S	S	S	NA
Heavy Duty Casters	NA	NA	NA	NA	S
Leveling Feet w/ Retractable Casters	O	O	O	O	NA
<b>System Calibration &amp; Maintenance</b>					
Precision Reticle Image Alignment Kit	O	S	NA	NA	NA
High Precision Reticle Image Alignment Kit	NS	O	S	S	S
System Leveling Plate	O	S	S	S	S
"Air to Air" Top Heater TC Calibration Kit	O	S	S	S	S
27mm Nozzle	O	S	S	S	S
27mm Component Nest	O	S	S	S	S
Nozzle Removal Tool	O	S	S	S	S
Demo Board Kit - (Includes Demo Board, BGAs, TC & Tape)	O	S	S	S	S
Basic Calibration Kit (All Pertinate Fixtures & Plates)	O	NA	NA	NA	NA
System Maintenance Hand Tool Kit	O	O	O	O	O
<b>Spare Parts Packages</b>					
Level 1 Spare Parts Package - (Configuration dependant, reference quote)	O	O	O	O	O
Level 2 Spare Parts Package - (Configuration dependant, reference quote)	O	O	O	O	O
<b>System Power Sizing Requirements</b>					
208/230 VAC, 30A, 50/60 Hz 1Ph	S	NA	NA	NA	NA
208/230 VAC, 40A, 50/60 Hz, 1Ph	NA	S	S	S	NA
208VAC, 40A, 50/60 Hz, 3Ph - (Domestic)	NA	NA	NA	NA	S
400VAC, 60A, 50/60 Hz, 3Ph - (International)	NA	NA	NA	NA	O
<b>System Compressed Gas (CDA / N2) Sizing Requirements</b>					
11 CFM @ 90 PSIG (315 LPM @ 6.2 Bar)	S	NA	NA	NA	NA
15 CFM @ 90 PSIG (425 LPM @ 6.2 Bar)	NS	S	S	S	NA
18 CFM @ 90 PSIG (510 LPM @ 6.2 Bar) - Systems with 5.6 kW Bottom Heater	NA	NA	O	O	NA
18 CFM @ 90 PSIG (510 LPM @ 6.2 Bar)	NA	NA	NA	NA	S
<b>System Dimensions</b>					
60"L x 41"W x 64"H (1525 x 1050 x 1625 mm)	S	S	S	S	NA
72"L x 34"W x 68"H (1825 x 875 x 1725 mm)	NA	NA	NA	NA	S
<b>Estimated System Weights - (Packaging weighth not included)</b>					
800 pounds (375 Kg)	S	S	S	S	NA
1200 pounds (550 Kg)	NA	NA	NA	NA	S
<b>System Packaging</b>					
Standard Local Skid and Wrap - (Additional 100 lbs., 45Kg)	S	S	S	S	S
NC International Shipping Crate - (Additional 300 lbs., 140Kg)	O	O	O	O	NA
LX International Shipping Crate - (Additional 400 lbs., 180Kg)	NA	NA	NA	NA	O