Fabrication: CNC Drilling, Routing, Scoring

- (2) 1997 Excellon System 2000S CNC Drilling Machines, s/n's 902175 & 802176, Automatic Load and Unload 600-Bits Per Spindle Tool Management System, (5) 110,000 Rpm air-bearing spindles, 22 3/4" x 30" max panel size per spindle, CNC-7 Controls

- (4) Pluritec Model GIGA 8888 CNC Drilling Machines, s/n's 08105501 (2001), 08107299 (1999), 08105699 (1999), 08108800 (2000), (8) 125,000 air-bearing spindles, 588 bit Large Tool Management System per spindle, broken bit detectors, Water Cooled Spindles w/ Model MC48-S/PLU Chiller

- Pluritec Selecta 2410 CNC Drilling Machine, (4) Spindles, Sieb & Meyer CNC 45.01.3.1 Controls

- (2) Pluritec Model Maxima (4) Spindle CNC Drilling Machine w/ Sieb & Meyer 45.02.1B Controls

- Excellon Model Mark VI D/R CNC Driller/Router 4-Spindle 36" x 30" Format Size, 60,000 Rpm Bearing Spindles, 120-Bit Tool Management System, CNC-6 Controls, s/n 175

- Excellon Model Mark VI D/R CNC Driller/Router 5-Spindle Machine 19" x 24" Format Panel Size, 120-Bit Tool Management System, 60,000 Rpm Bearing Spindles, CNC-6 Controls, s/n 206

- Excellon Model Mark VI E D/R CNC Driller/Router 5-Spindle, 60,000 Rpm Bearing Spindles, 19" x 24" Format Panel Size, CNC-6 Controls, s/n 254

- 1997 Pluritec Mega Model 4500 CNC Routing System 5-Spindles Automatic Load, 330-Bits Per Spindle Tool Management System, s/n 05811897

- Pluritec Minima Single Spindle CNC Drilling Machine Driller/Router, Sieb & Meyer 45.10.1C & 35.01.5.2 CNC Controls Complete w/ Vision System, s/n 02101588
• 1998 Telmec Model SL13.9 CNC Scoring Machine w/ Load & Unloader, s/n 558 w/ WS 2001/V14 Controls

• 1998 POLAeMASSA Model SCR-BE Board Straightener, s/n 134B65187

• Helios V Score Checking Machine

• Excellon Model EX300 Driller/Router CNC-6, 5- 60,000 Rpm Spindles, s/n 099

• Pluritec Model Contour MTI (2) Spindle Router w/ Sieb & Meyer 35.02.2 Controls

• Motoros-Chikuna Giken Model TW-6100 PC Trimmer Beveling Machine, s/n 88Y1130

• Pin Max Model 3DPL 2-Spindle Drilling & Pinning Machine, s/n 356

• Quick Tape Taping Machine

• Pluritec Simpla 2-Spindle Drilling & Pinning Machine

• Bosh C-Frame Press 60KN Capacity

Lamination & Multilayer Equipment

• 1996 Bieffebi Model 139/4 Multi Layer Mass Lamination Vacuum Press System Consisting of (3) 4-Opening Hot Vacuum Presses, 29-1/2” x 37” Platens w/ (1) 4-Opening Cold Press Robot T.E.S.E. Plate Handling Robot, Buffer Stations Automatic Conveyor & Lay-up Stations, (3) Hot Oil Generators, Siemens Crosop 5 Micro Processor Controls, Associated Vacuum Pumps, s/n 004

• 1990 Bieffebi Mass Lamination Vacuum Press Model Strato System 130/131, s/n 130.003, 4-Opening Hot Press, Complete w/ 4-Opening Cold Press & Automatic Call Plate Handler & Robot

• Multiline Optiline PL Center Line X-Ray Drill, s/n OPL-6055

• Multiline Optiline PE Post Etch Punch, s/n OPE-0115

• Bosch 60KN Depinner

• (2) Print Process Rivomat II Pin Pre-Lay-up Machines
AOI

- 2000 Barco Accumatch II AOI System, s/n 330
- Orbot Model 309I-AP Laser AOI System, s/n SV6412
- Orbot Model VRS-3I Verification Station
- Orbot Model VRS-4I Verification Station, s/n VR642610.12.96

Artwork Generation

- Ono Sokki Model TN-750 Registration System w/ TN-116 Image Processor
- (2) Non-Contact Video Measurement Systems
- Teknek Model PCML640 Cover Sheet Laminator
- RB3 Model MH2000 Vacuum Frame Exposure System
- RB Model PRT Vacuum Frame Exposure System
- Buyers Micro Modifier PC-24
- Buyers Micro Modifier Model 5500XPX
- Macbeth TD931 Film Densitometer
- Diazo Dry film Ammonia Developer
- Optrotech Image 5008 Laser Drum Photo plotter, s/n 102
- Kodak Kodamatic 710 Film Processor

Testing

- Circuit Line Single Sided Bare Board Tester, 31' x 21" Panel Size
- Luther & Maelzer Production Tester
- Mania Versa Jet Double Sided Bare Board Tester w/ Automatic Unload and Load
• (2) ATG Model A2000 Double Sided Single Density Bare Board Testers, s/n 9110200100 & 92012000001 (Note – 11-1/2 x 25-3/4 Grids)

• Circuit Line Model Precise 2S Double Sided Bare Board Tester, s/n 27B004

• Fischer Model Fischerscope MMS Thickness Gauge

Plating

• Atotech Uniplate Horizontal Copper Plating Line

• Schering Dyna-Plus Automated Copper Tin Electro Plating Line Complete w/ (3) Rail Rider Programmable Hoists for Plating Electronic Pulse Reverse Rectifiers Type PE8101

• La Tecnogalvano Automatic Black Oxide Plating Line

Scrubbbers-Deburrers-Board Washers

• 2000 POLAeMASSA Model BRS-4A 4-Brush Scrubber, s/n 137A65.029 High Pressure Rinse & Filtration System

• 1996 POLAeMASSA 4-Brush 30" Scrubber Deburrer Model BRS-4M, s/n 96.027 & 137A78.003

• IS Model Pumex HS 24’ Outer Layer Pumice Scrubber, s/n 8813250 High Pressure Rinse & Filtrex System

• IS Pumiflex Inner Layer & Outer Layer Pumice Scrubber, 30", s/n 0113564 High Pressure Rinse & Filtrex System

• IS 2-Brush Scrubber & Parts Washer, s/n 4606262

• IS 24" Small Parts Washer, s/n 610Y018

• IS Model Modulo MK1 Panel Washer, 24", s/n 0737570

• IS 24" Fluxer, s/n 3207066

Board Dryers

• IS Dryer, s/n 3208140

• Omca Type R.A.76/2 Exit Dryer
• Omca Type RA76/2 Dryer

Ovens

• (2) Ocras Zambelli Model SCF/0 2-Door Electric Walk in Ovens, s/n's T408/47 & T689/52, 200 Degree Celsius Maximum Temperature 1996 & 1999 Digital Temperature Controls

• (2) 1999 Ocras Zambelli Model SCF/0 2-Door Electric Ovens, s/n T687/50 & n/a, 200 Degree Celsius Maximum Temperature

• Vibro System Conveyorized Curing Oven

• Vibro Thermotronic Conveyorized Curing Oven, s/n 1010901

• DuPont Model DSUV2000 UV Curing Oven

• Vitronics Reflow Oven

• Thomas Muller Model PR570M3 Conveyorized Tack Curing Oven, s/n 20.561

Soldermask: LPI Process

• 1996 Burkle LPI Roller Coat Line Model DRCL600, s/n 7549-01 Complete w/ Burkle Drying Oven

• Ciba Geigy LPI Curtain Coating Line w/ (2) Burkle Type PR156-C Curtain Coaters & Curing Oven

Hot Air Leveling

• 1992 Teledyne Halco Unicote Hot Air Solder Leveling Line, s/n 5026

• IS 24" Hot Air Solder Leveling Post-Clean Line, s/n 3577835

• Orlandi 24" Hot Air Solder Leveling Pre-Clean & Fluxer

Wet Process: Pre-Clean, Developers, Etching, Stripping

• IS 30" Develop Etch Strip Line s/n 0767358, IS Devmaster, IS Etchmaster with Double Chambered Titanium Etcher, IS Stripmaster, UniOp Microprocessor Controls

• 1996 IS Model MODUL/30" Pre-Clean & Micro Etch Line, s/n 0973927
• 2001 Atotech Horizon 26" Multi Bond Alternative Oxide Line

• B. Schmiedeskamp 24" High Pressure Rinse LPI Developer Model 455M4, s/n 982

• 1999 Schmid Brush & Pre-Clean Line Model Combi-Brush 24", s/n 98-99-267

• 1991 Schmid 24" Combi-Brush Pre-Clean Line Type 45, s/n 45-91-034

• Schmid 24" Strip Etch Strip Line Complete w/ Resist Stripper, Double Chamber Etcher, IS Dryer & Tin Stripper

• 1999 Schmid Combi-Etch Pre-Clean Line Type 98, s/n 98-99-268

• POLAeMASSA Fusing Oven & Washer

Screening & Legend

• (2) Cugher Semi-Automatic Screen Printers Model Futura-2-88

• Cugher Futura 2/88 Semi-Automatic Screen Printer

• Onno Sokki Model TN-550IP Automatic Screen Printer, s/n 97M2654 Complete w/ TN-155 System Control Unit & TN-117 Image Processor

• Serindustiria Squeegee Sharpener

Photo: Exposure Units, Dry Film

• (3) ORC Model HMW680GW 7KW Double Drawer Exposure Units w/ Mylar Upper Frames

• (2) 1997 Bacher Model FAPF6008780 Automatic Exposure Units, Type 8780/HI, s/n's 210 & 211

• Bacher Model 8980WD600 Panel Flipper

• Bacher Model 8980WD600 Panel Flipper

• (2) Bacher Model FAPS6008780 Automatic Exposure Printers

• Bacher Model 89080WD600 Panel Flipper

• 1998 Bacher Model 8890 Automatic Exposure Unit, s/n 106 (L)
- (2) DuPont Riston Model PC130 Double Drawer Exposure Units, 3-5 kw switchable, s/n's 730-931-86 & 730-851-85 Complete w/ 950 Air Ionizers

- DuPont Riston Model PC130 Double Drawer Exposure Unit, 3-5kw switchable, s/n 730-1026-88

- ORC Model HMW-201B-5K Double Drawer Exposure Unit

- Morton Model 2630 Cover Sheet Remover

- Dynachem Model 1600 IV 30\" Dry Film Automatic Cut Sheet Laminator with auto-centering

- Teknek 30\" Model CM4750 Tacky Roller

- Dynachem Model 830 Pre-Heater

- Teknek Model LCM Thin Line Tacky Roller

**Board Handling & Automation**

- 1996 POLAeMASSA Model CSR-AC Panel Unloader, s/n 96025

- POLAeMASSA Automatic Panel Loader

- 2001 Rescotron Model Robot 1T Vacuum Loader, s/n RE01020460

- 2001 Rescotron Model Robot 1TF Vacuum Panel Unloader, s/n RE01020560

- 1996 POLAeMASSA Panel Unloader Model SCR-AC, s/n 134878.003

- 1999 Alpha Alphamat Panel Unloader, s/n 9904007

- 1999 Alpha Alphamat 8 Panel Buffer & Loader, s/n 9908001

- 1999 Alpha Alphamat 7 180 Degree Panel Rotator, s/n 9907006

- 1999 Alpha Alphamat 9 Panel Conveyor, s/n 9909002

- 1999 Alpha Alphamat 6 Panel 90 Degree Turn, s/n 9906004

- 1999 Alpha Alphamat 4EL Panel Loader, s/n 9904006
• 1999 Alpha Alphamat 8A Buffer Station, s/n 9908002
• 1999 Alpha Alphamat 1 Panel Loader, s/n 9901011
• Corema Panel Accumulator
• Corema Panel Accumulator
• POLAeMASSA Panel Stacker
• Corema Panel Stacker
• POLAeMASSA Panel Stacker
• POLAeMASSA Automatic Panel Loader
• POLAeMASSA Panel Loader
• T2A 90 Degree Panel Turn & Loader
• 1998 T2A Model T100-000 Panel Loader, s/n 1100-01
• T2A Automatic Panel Unloader
• 1998 T2A Model T101-000 Panel Unloader, s/n T101-01
• Alpha Model 3-N-PE Panel Loader, s/n 4116
• POLAeMASSA Panel Stacker

• **Shipping & Packaging**

• 1997 Interdibipack Packaging Machine Model MK, s/n 1106
• Italdibipac Model Dibi pack 4255 Packaging Machine
• 1999 Band-A-Matic Model F11A Automatic Banding Machine, s/n F11AA1912
• Label Touch Automatic Labeling Machine
• Comarmee Box Taping Machine Model GEN-47L, s/n ZEO17828