

<p style="text-align: center;"><b>Lares Tecno S.p.A. – L'Aquila Italy</b> <b>PCB Machinery Highlights</b></p>
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*\* Please note the listing below features only the major PCB capital equipment, please view the final lot catalog for many more items not included in this list, such as plant support equipment, etc. We anticipate posting the full lot catalog with images by no later than September 18<sup>th</sup>. Please contact us regarding specific equipment inquiries and specifications not identified on the below list. Some assets are subject to prior sale and available immediately prior to the auction.*

**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
- Orbotech Model 309I-AP Laser AOI System, s/n SV6412
- Orbot Model VRS-3I Verification Station
- Orbotech 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

### **Scrubbers-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/HL, 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 Dibipack 4255 Packaging Machine
- 1999 Band-A-Matic Model F11A Automatic Banding Machine, s/n F11AA1912
- Label Touch Automatic Labeling Machine
- Comarme Box Taping Machine Model GEN-47L, s/n ZEO17828

