

LCD PRODUCTION LAYOUT



AUTOMATIC SUBSTRATE CLEANING MACHINE (MODEL ASC)

Description: Cleaning Substrates in Multiple Stages with Detergent and DI water

Item Number: 1



AUTOMATIC IR/UV SURFACE TREATMENT MACHINE

(MODEL IUST)

Description: Remove Water Particles with IR and Surface Treat
with UV

Item Number: 2, 12



COOLING MACHINE (MODEL CM)

Description: Cool Down the Substrate to Prepare for Chemical Coating

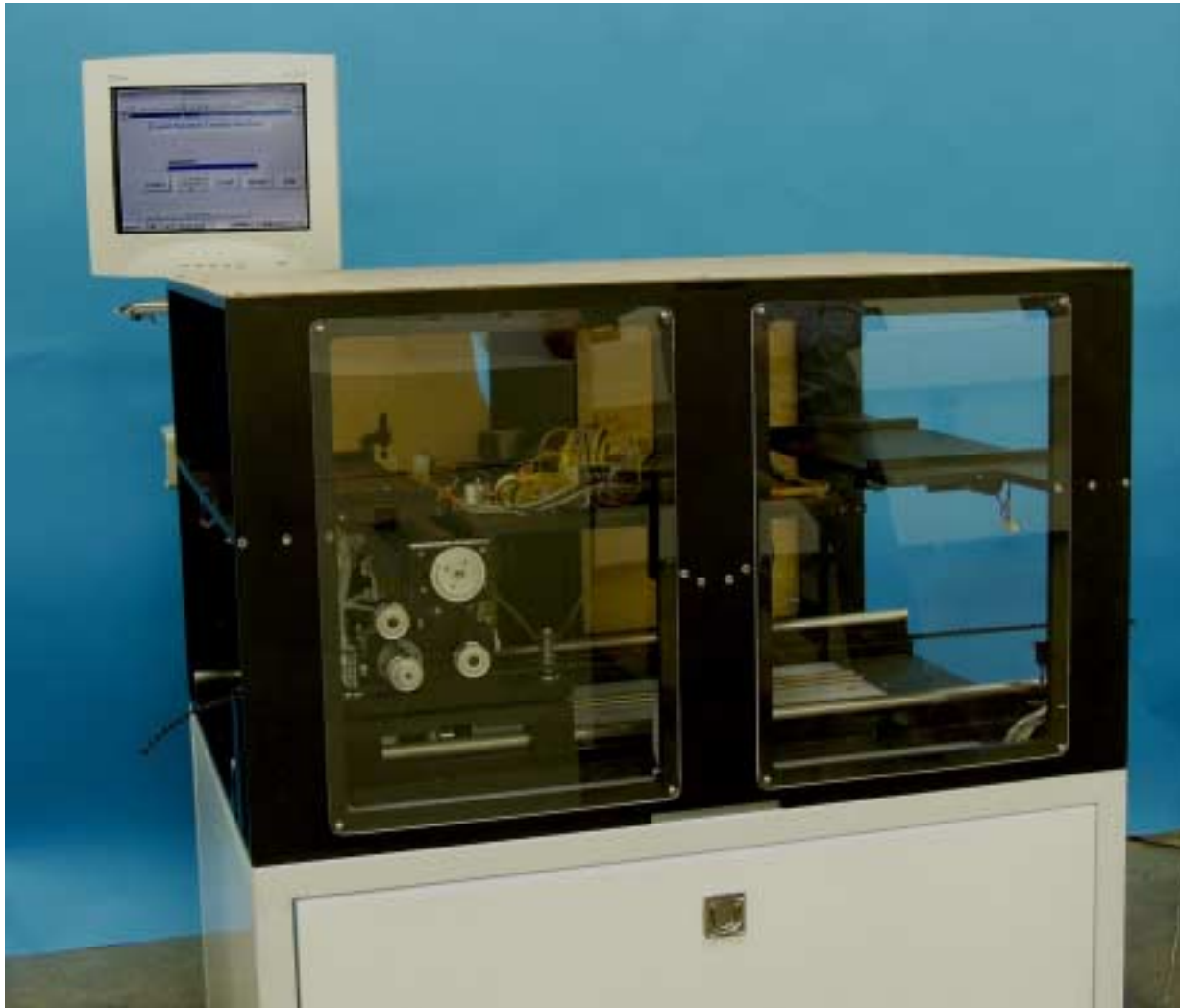
Item Number: 3, 9, 13, 18, 22



AUTOMATIC NON-SELECTIVE COATING MACHINE (MODEL ANSC-A)

Description: Photo-Resist Coating to the Substrate.

Item Number: 4-A



AUTOMATIC NON-SELECTIVE COATING MACHINE (MODEL ANSC-B)

Description: Spin Photo-Resist Coated Substrate to Form a Uniform Coating.

Item Number: 4-B



AUTOMATIC HOT PLATE CURING MACHINE (MODEL AHP)

Description: Pre-Curing for the Photo-Resist.

Item Number: 5



AUTOMATIC DUEL FRAME HIGH DEFINITION EXPOSURE MACHINE (MODEL ADE)

Description: Expose the Image onto the Photo-Resist Coated
Substrate.

Item Number: 6



AUTOMATIC DEVELOPING AND CLEANING MACHINE

(MODEL ADC)

Description: Develop the Imaged Photo-Resist Substrate.

Item Number: 7



AUTOMATIC CONVEYOR CURING MACHINE (MODEL ACC)

Description: Final Curing for the Photo-Resist.

Item Number: 8



AUTOMATIC WET ETCHING & CLEANING MACHINE (MODEL AEC)
AUTOMATIC WET STRIPPING & CLEANING MACHINE (MODEL ASC)

Description: Etch the ITO from the Exposed Substrate and Strip the Un-Exposed Photo-Resist from the Imaged Substrate. MODEL AEC and MODEL ASC are Connected.

Item Number: 10, 11



AUTOMATIC SELECTIVE COATING MACHINE (MODEL ASCM)

Description: Coat the Chemical to the Substrate at the Desired Area by using a Patterned APR Plate.

Item Number: 14, 19



AUTOMATIC UV CURING MACHINE (MODEL AUC)

Description: Pre-Curing Chemical with UV for Better Bonding to the Substrate

Item Number: 16



AUTOMATIC HOT PLATE CURING MACHINE (Model: AHP)

Description: Pre-Curing the coated chemicals.

Item Number: 15, 20



AUTOMATIC CONVEYOR CURING MACHINE (MODEL ACC)

Description: Post Cure the Chemically Coated Substrate at an Elevated Temperature. Picture shows four (4) MODEL ACC Machines Connected Together. Item Number: 17A, 17B, 17C, 17D, 21A, 21B, 21C, 21D.



AUTOMATIC RUBBING MACHINE (MODEL AR)

Description: Rubbing the Surface of the Chemically Coated Substrate to form an Alignment Layer.

Item Number: 23



AUTOMATIC SUBSTRATE AIR CLEANING MACHINE

(Model SAC)

Description: Clean the Contamination Off of the Substrate
Generated during Rubbing.

Item Number: 24



AUTOMATIC SCREEN PRINTING MACHINE (Model ASP)
Description: Form the Seal Ring Pattern for Sealing the LC between Substrates or Form the Cross Dots for Connecting the Electrodes between Substrates. Item Number: 25A, 25B



AUTOMATIC SPACER APPLICATION MACHINE (Model ASA)

Description: Apply Spacers to the Substrate for Controlling the Gap between Two Substrates. Item Number: 26A, 26B



AUTOMATIC HOT PLATE CURING MACHINE (Model: AHP)

Description: Pre-curing the sealing ring chemical. Picture shows two (2) Model AHP machines connected together.

Item Number: 28A, 28B.



AUTOMATIC UV DISPENSING MACHINE (Model AUD)

Description: Provide the Temporary Holding of the Position of the Mated Substrates.

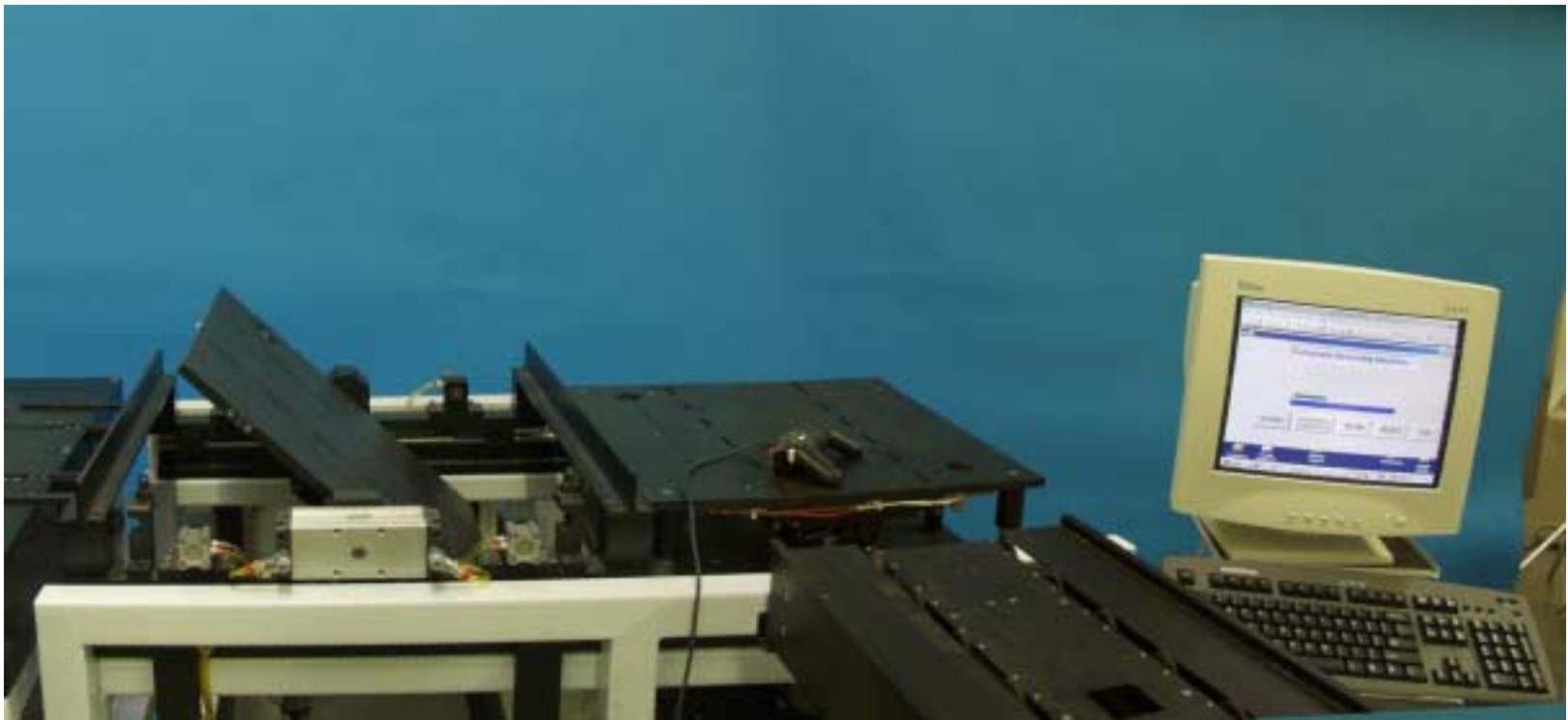
Item Number: 27



AUTOMATIC SUBSTRATES ASSEMBLY MACHINE (MODEL ASAM)

Description: Mate the Two Substrates Together at a Precise Position.

Item Number: 29



THERMAL/PRESSURE CURING MACHINE (MODEL TPC)

Description: Final Curing with Temperature and Pressure for the Sealing Material.

Item Number: 30A, 30B, 30C



AUTOMATIC SCRIBING MACHINE (MODEL AS)

Description: Scribe the Mated Substrates to Obtain individual Cells.

Item Number: 31



SEMI-AUTOMATIC CELL BREAKING MACHINE (MODEL SAB)

Description: Break the Scribed Mated Substrates into Individual Cells.
Item Number: 32, 36



LIQUID CRYSTAL FILLING MACHINE WITH FILLING FIXTURES (MODEL LCF, FF)

Description: Fill the Liquid Crystal into the Cells.

Item Number: 33, 34

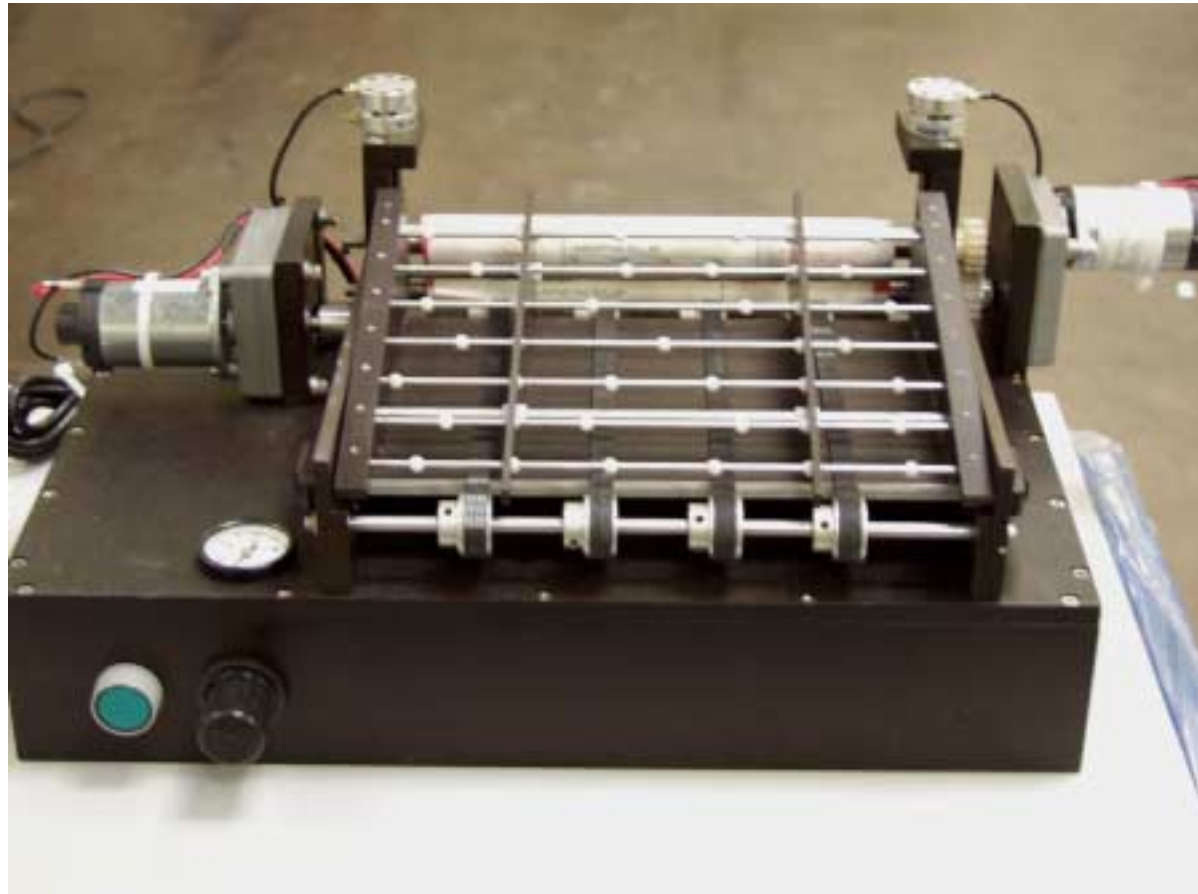


SEMI-AUTOMATIC POLARIZER LAMINATING MACHINE

(MODEL PL)

Description: Laminate the Polarizers on to the Individual Cells.

Item Number: 38 (Quantity 5)



AUTOCLAVE (Model AC)

Description: Remove the Air Bubbles between the Polarizer and the Mated Cells with Temperature and Pressure.

Item Number: 40



ITO TEST UNIT (MODEL ITU)

Application: Measure the Resistivity of the ITO Glass

Item Number: 50A, 50B

