

## GLASS PROCESS SYSTEMS

- ◆ Spandrel Systems **G101**
  - Spandrel Glass
  - Screen Printed Glass
  - Decorative Glass
- ◆ Glass Bending Systems
  - Single Station Bender **G102**
  - Shuttle Bender **G102**
  - (4) Cart Bender **G102**
  - Serial Bender **G103**
  - Auto Windshields
  - Aircraft Windshields
  - Furniture Glass
- ◆ Flat Glass Laminating Systems **G104**
- ◆ Vacuum Ring Ovens **G105**
  - Automotive Windshields
  - Automotive Sidelites
  - Bent Safety Glass
- ◆ Decorative Dryers **G106**
  - Appliance Glass
  - Furniture Glass
  - Novelty Glass
- ◆ Automotive Ink Drying and Cooling **G107**
  - Windshields
  - Back Lites
  - Side Lites
- ◆ Specialty **G108**
  - CRT Faces
  - Touch Screens
  - Scratch Resistent Coatings
  - Anti-Glare Coatings
  - Mirror Backing Coatings



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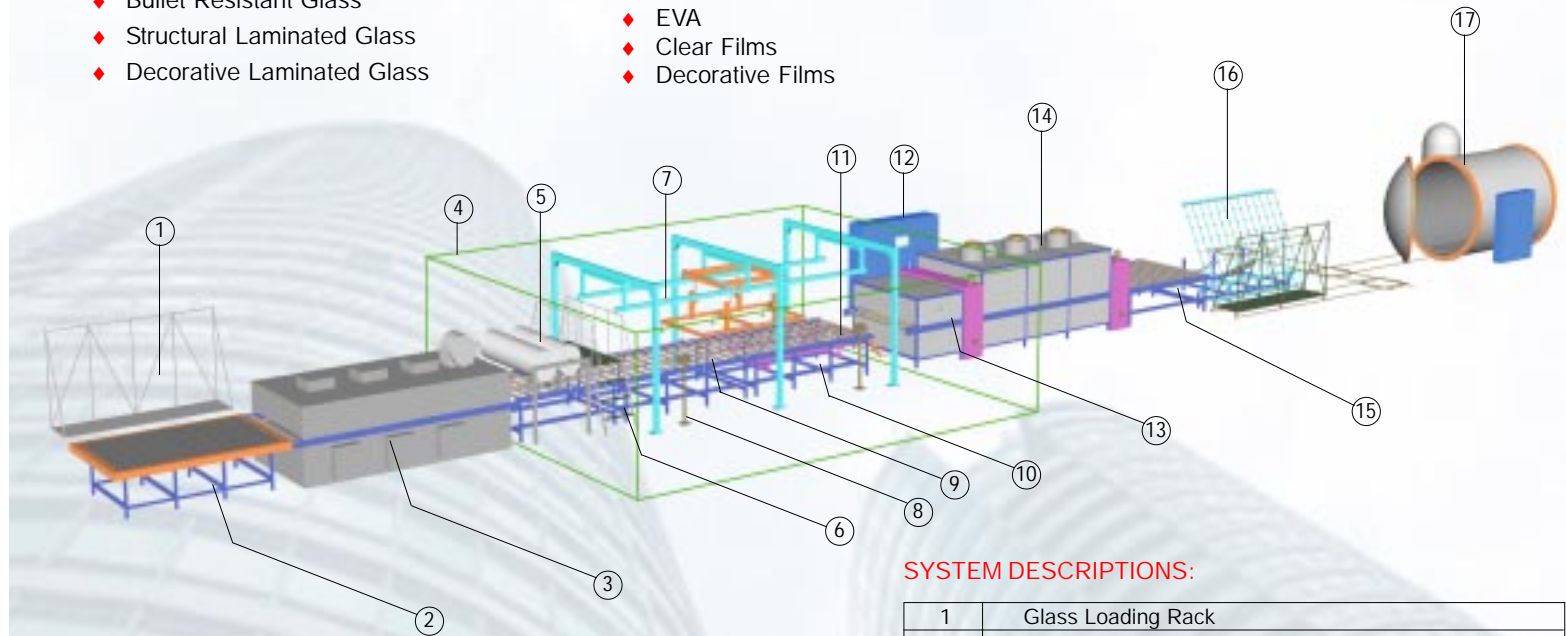
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## TYPICAL APPLICATIONS:

- ◆ Standard Laminated Window Glass
- ◆ Hurricane Rated Window Glass
- ◆ Security Glass
- ◆ Bullet Resistant Glass
- ◆ Structural Laminated Glass
- ◆ Decorative Laminated Glass

## LAMINATE MATERIALS:

- ◆ Glass - 2mm-19mm, Standard and Coated
- ◆ PVB - .015" - .150"
- ◆ Rigid Materials such as DuPont's Sentry Glass Plus™
- ◆ Polycarbonate
- ◆ Urethane
- ◆ EVA
- ◆ Clear Films
- ◆ Decorative Films



## ADVANTAGES:

- ◆ All US made Components
- ◆ USA Spare Parts and Technical Support
- ◆ Customers Plant Electrical/Mechanical Specifications Incorporated
- ◆ Minimum Floor Space Requirement
- ◆ Lowest Power Usage
- ◆ Minimum Maintenance
- ◆ Over 30 Systems Installed
- ◆ Over Four Decades of Experience in the Glass Industry

## SYSTEM DESCRIPTIONS:

1	Glass Loading Rack
2	Free Fall, Tilt Table or Automatic Loader
3	Washer
4	Assembly Room
5	PVB Storage & Unwind
6	Bridge
7	Overhead Vacuum Lift
8	Assembly Room Operator's Stations
9	Layup Conveyor with Popup Table & Registration Lugs
10	Trim Conveyor with Popup Table
11	Pneumatic Bridge
12	Control Panel with PLC System
13	IR Preheat Oven & Press
14	IR/Convection Tack Oven with Press
15	Acceleration Conveyor
16	Manual Unload, Tilt Table or AUTOMATIC Stacker
17	Autoclave

SEE REVERSE SIDE FOR DETAILED SPECIFICATIONS

G104 - 06/30/03

## BASE MODELS:

- ◆ All Base Models Utilize Casso-Solar Tubular Quartz Unitube™ Heaters with Internal Reflector
- ◆ All Units Available at 200/220/240; 380/400/415; 440/460/480; 575/600 volts, 50 or 60 Hertz
- ◆ Base Laminate: 3 mm Glass + .030" PVB + 3 mm Glass

Specs	Model #	LGM - 48	LGM - 60	LGM - 72	LGM - 84	LGM - 96	LGM - 108	LGM - 120
Glass Size		48"W x 84"L	60"W x 96"L	72"W x 144"L	84"W x 144"L	96"W x 144"L	108"W x 144"L	120"W x 144"L
Conveyor Speed		2 - 15 FPM	2 - 15 FPM	2 - 15 FPM	2 - 15 FPM	2 - 15 FPM	2 - 15 FPM	2 - 15 FPM
30 FPM High Production System		Optional	Optional	Optional	Optional	Optional	Optional	Optional
Load Table		Optional	Optional	Optional	Optional	Optional	Optional	Optional
Washer		Optional	Optional	Optional	Optional	Optional	Optional	Optional
Layup Sections		1	1	1	1	1	1	1
Layup Section Dimensions		48"W x 108"L	48"W x 120"L	60"W x 168"L	60"W x 168"L	72"W x 168"L	84"W x 168"L	96"W x 168"L
Trim Sections		1	1	1	1	1	1	1
Trim Section Dimensions		48"W x 108"L	48"W x 120"L	60"W x 168"L	60"W x 168"L	72"W x 168"L	84"W x 168"L	96"W x 168"L
Layup & Trim Lanes		1	1	1	1	1	1	1
Popup Table In Trim		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overhead Lift Assist		No	No	No	No	Yes	Yes	Yes
Registration Equipment		Optional	Optional	Optional	Optional	Optional	Optional	Optional
PVB Storage/Unwind		Optional	Optional	Optional	Optional	Optional	Optional	Optional
Preheat Oven		1	1	1	1	1	1	1
Preheat Press		1	1	1	1	1	1	1
Tacking Ovens		3	3	3	3	3	3	3
Tacking Press		1	1	1	1	1	1	1
Tacking Optical Pyrometer		1	1	1	1	1	1	1
Unload Conveyor		108"L	108"L	156"L	156"L	156"L	156"L	156"L
PLC Control		Optional	Optional	Optional	Included	Included	Included	Included
Machine Prewire		Optional	Optional	Optional	Included	Included	Included	Included
All Other Options		Available	Available	Available	Available	Available	Available	Available

## SYSTEM FEATURES AND OPTIONS - Casso-Solar will custom configure a system to meet your exact process requirements:

### Load Section Options:

- ◆ Free Fall Table
- ◆ Tilt Load
- ◆ Overhead Loader Lift to Fixed Table
- ◆ Side Loader to Fixed Table

### Washer Options:

- ◆ Standard Washer
- ◆ Coated Glass Washer

### Assembly Area Options:

- ◆ Layup & Trim Conveyor with Maximum Operator Access
- ◆ Compact Drive System
- ◆ Overhead Lift System for Heavy Glass
- ◆ Manual or Automatic Registration System
- ◆ Automatic Pairing System
- ◆ PVB Storage/Unwind System
- ◆ Bridge Conveyors for Access to Both Sides of the Line
- ◆ Dual Line Operation for Window Glass
- ◆ Automatic Glass Alignment
- ◆ AC Inverter Conveyor Motor Controls
- ◆ Automatic Conveyor Synchronization

### Oven Options:

- ◆ Electric or Gas IR Oven
- ◆ Fast Response, Medium Wavelength, Maintenance Free Electric Heaters with Internal Reflectors
- ◆ Independent Top and Bottom Control
- ◆ Cut-Off Zones to Maximize Efficiency
- ◆ Laminate Thickness Sensor for Automatic Setup
- ◆ Chamber Venting to Eliminate Premature Edge Sealing
- ◆ Kevlar Wrap Conveyor Rolls
- ◆ No Maintenance Graphite Conveyor Roll Bearings
- ◆ Fully Insulated Oven
- ◆ Auxiliary Convection Heat for Coated Glass Fabrication
- ◆ Optical Pyrometer to Measure Laminate Temperature

### Laminating Press Options:

- ◆ Oversized 17" - 20" Diameter Press Rolls
- ◆ EPDM Roll Covering with Traction Pattern
- ◆ Powered Press Gap Adjustment
- ◆ Automatic Press Gap Adjustment

### Unload Options:

- ◆ Unload Conveyor with Unload Assist Rolls
- ◆ Tilt Unload Conveyor
- ◆ Overhead Vacuum Lift Unload System
- ◆ Automatic Stacker and Robotic Unload

### Autoclave:

- ◆ Single Vessel Design
- ◆ Dual Vessel Design

### Controls:

- ◆ Solid State Power Control
- ◆ Optical Pyrometer Monitors Part Temperature
- ◆ PLC or SCADA Operator Control with Recipe Storage/Recall/Automatic Setup
- ◆ Data Logging and Process Reporting/Documentation
- ◆ NEMA 12 Enclosures
- ◆ Meets Underwriters Laboratories, CSA, CE, NFPA and NEC Codes
- ◆ Complete Prewiring of Entire Machine