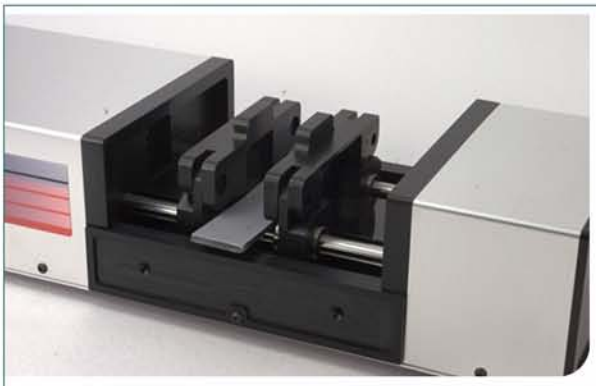
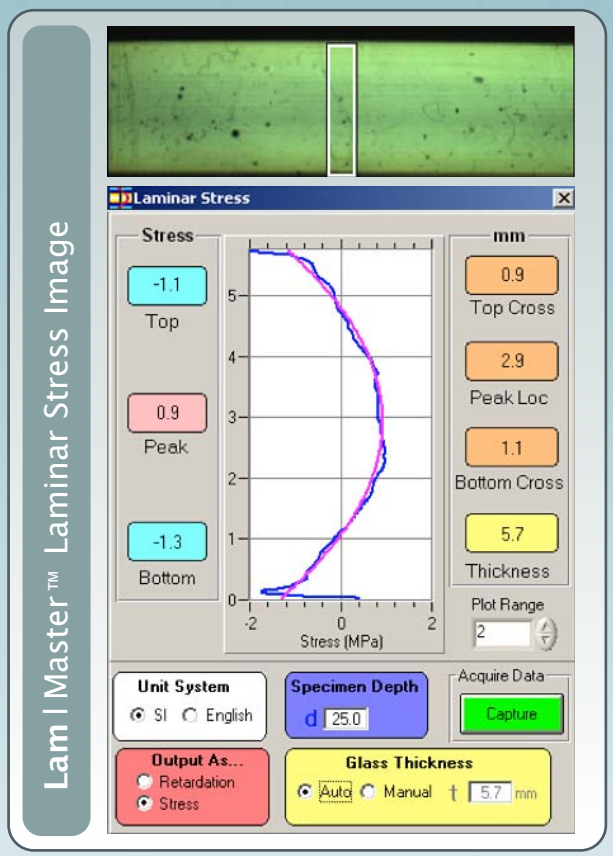
Lam | Master™



LamMaster 2000

Laminar Stress Masurement System for annealed glass by Stress Photonics Inc.



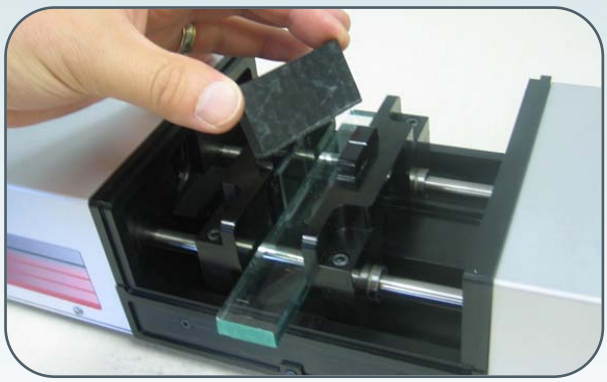
The LamMaster can solve cuttability problems by assessing the annealing level of the glass. The system provides a 2D image of the through-thickness stresses including surface compressions and center tension. A summary form provides the parabolic stress profile as well as key measurements all directly linked to a spreadsheet style database for long term cataloging of data.

Setup is a snap. Simply insert the specimen into the LamMaster self-centering vise, dab a small amount of matching index gel on the edges of the sample and close the vise. The matching index gel minimizes the effects of imperfections of the sample edges and the self-centering vise automatically aligns the sample and positions it for optimal performance.

The LamMaster also provides a striae map that indicates density layers in the glass, often useful in making decisions in float line transition periods.

Features of the LamMaster 2000

- Simple Turn-key System
- Easy Specimen Loading
- Minimum Specimen Preparation
- Integrated Data Base
- Integral Calibration Standard
- Thickness stress profile reporting:
  - Surface Compression
  - Center Tension Maximum and Location
  - Zero Stress Points
  - Striae Maps



stress | photonics™

Lam | Master™

Laminar Stress Measurement System by Stress Photonics, Inc.

SPECIFICATION	VALUE
SPECIMEN	
Maximum Length	Unlimited if properly supported
Maximum Width	100 mm
Minimum Thickness	2 mm
Maximum Thickness	25 mm
Glass Tint	Clear, Solar, Privacy
Edge Finish	As cut, within reason
CALIBRATION	Sharples 137 nm waveplate
MEASUREMENT	
Stress	
Range	550 nm / 8.6 MPa @25 mm specimen width
Resolution	6 nm / 0.1 MPa @ 25 mm specimen width
Spatial Resolution	0.1 mm resolution
Pixel Density	40 pix / mm
INSTRUMENT	
Size (H x W x D)	95 x 140 x 410 mm
Weight	3.5 kg
Power	100-240 VAC, 3 A 50-60 Hz

INCLUDES

Software

- One click data collection
- Data export via text, Excel, or Database formats

Index matching fluid

Reference specimens

(Computer available upon request.)

Stress Photonics, Inc.
3002 Progress Road, Madison, WI, 53716, USA
Phone (608) 224-1230, Fax (608) 224-1233
Email: info@StressPhotonics.com
www.StressPhotonics.com
Glass Inspection Products: www.glassphotonics.com