

DIMX

MEASUREMENT AND SIZING OF GLASS PANELS



SYNERGX Technologies introduced **DIMX** in 2012 as the first metrology system capable of 100% Quality Control (QC) on all critical dimensions of flat glass.

DIMX provides fully automated, non-contact dimensional measurement solution of glass panels with a cycle time as low as 4 seconds at 0.1 mm accuracy (3 σ).

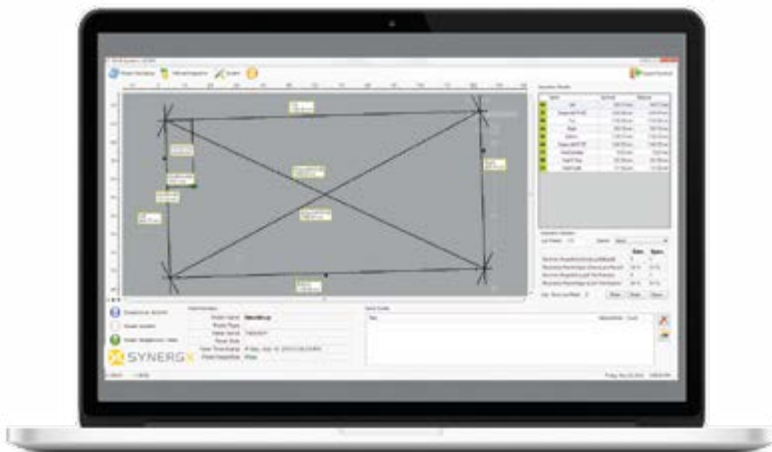
All inspection data is archived and easily retrievable for QC reporting, customer review and process optimization.

FEATURES

- Complete glass flat panel Geometric Dimensioning and Tolerancing Solution (GD&T) at 0.1 mm accuracy
- 100% non-contact measurement at full production speed
- Industry leading robust repeatability measurements of 3 σ
- Simple, high precision with powerful optical design
- One-click SKU changeover

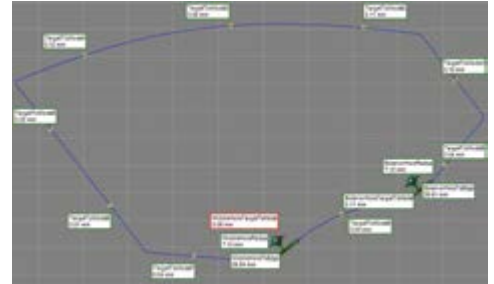
KEY BENEFITS

- Inline and high-precision automated dimensional measurement system to ensure reliable and repeatable measurements
- Consistent glass dimensional tolerances within specifications
- No costly mechanical gauges traditionally used in a statistical sampled QC analysis
- No costly human errors
- Cost effective system maintenance



DIMX Specifications and Configuration

| | |
|------------------------------|---|
| Model Configuration | Inline Models |
| Optical Subsystem | Tele-centric Optics with Area Scan Camera |
| Accuracy | 0.1 mm |
| Repeatability | 3σ |
| Minimum Glass Size (H and W) | 1250 m |
| Maximum Glass Width | 1000 m |
| Minimum Hole Diameter | 5 mm |
| Conveyor Speed | Up to 50 m/min |
| Cycle time | 4 seconds |
| Glass Color | Light transmittance from 6% to 92% |



Distance Tolerancing



Dimension Tolerancing

Hole Diameter



Alignment Tolerancing



ABOUT SYNERGX

With systems installed worldwide, **SYNERGX Technologies Inc.** is a leading global supplier of automated optical inspection technology. We provide turnkey quality control solutions for the automotive, photovoltaic, appliance, bottling and architectural glass industries. Our inline tele-centric inspection systems use patented image acquisition hardware and our world-class software optimizes the quality control process.

Located in Laval, Canada, **SYNERGX** has sales offices and customer support services in North America, Asia and Europe. Our success is based on long term strategic alliances with leaders in glass processing.

SYNERGX strives to follow three core values:

- > QUALITY
- > PRECISION
- > INNOVATION

