

# Textile Systems



## High Speed Singer

The Lanly Company has specialized in the engineering and manufacturing of custom textile systems for over 60 years.

Lanly's new High Speed Singers are designed for high speed production of delicate glass fabrics. Precise process control allows a single system to efficiently handle a wide range of products. Developed specifically for singing electrical glass, they easily handle yarn diameters from D900 to G75.

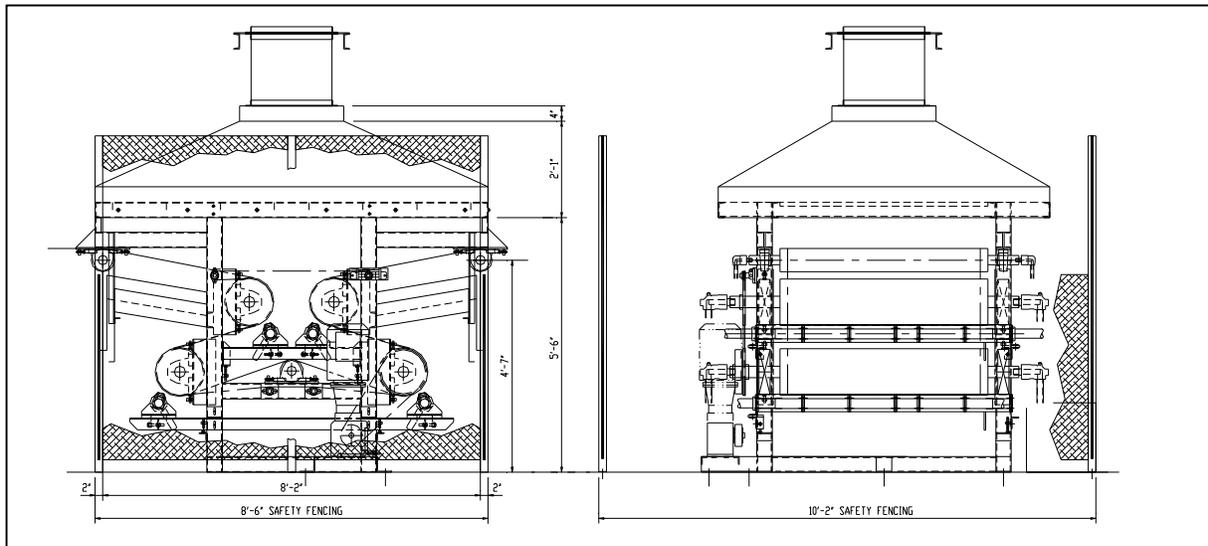
- High burner capacity allows production speeds up to 120 ypm.
- Large diameter, 12", rolls along with extended width burner faces provide increased dwell time for more effective singing while significantly reducing the risk of creasing.
- Unique four burner system applies flame twice to each side of the web for heavier fabrics, such as 7628. For light weight fabrics, two burners can be shut down to reduce energy consumption.
- Adjustable burner mounts allow setting the flame contact angle and flame wrap to obtain optimum singeing of a wide range of glass fabric styles.
- Selvage protectors on each end of the burners are adjustable to match fabric width.
- Automatic burner control, tied directly to line speed, ensures correct flame intensity for uniform singeing.
- Heat deflector shields protect the fabric from heat migration when lower burners are operating

## FEATURES

- ▶ Four burners provide double singeing for heavy fabrics; two burner operation for efficient lightweight fabrics.
- ▶ Large diameter fabric back up rolls allow extended tangential flame dwell time on the fabric surface to melt back broken filaments while protecting the fabric from wrinkles, that can be caused by flame shock.
- ▶ Fabric strength is protected by the heat sink of the large water cooled rolls. All rolls, including idler rolls, are water cooled.
- ▶ Adjustable burners allow optimum positioning of flame contact angle and distance from fabric for efficient multi-style operation.
- ▶ Adjustable selvage protection on each end of the burners limit flame to fabric width.
- ▶ Variable speed drive on fabric back up rolls is interfaced with adjacent equipment drives to ensure accurate line speed control.
- ▶ Direct spark ignition and infra-red flame detection provide reliable and safe operation.



Wide burner faces and large diameter rolls provide sufficient dwell time to ensure quality singeing



## TYPICAL DESIGN SPECIFICATIONS

- ▶ Fabric weight – 2.025 oz/sq yd to 8.86 oz/sq yd
- ▶ Fabric width – Up to 72 in
- ▶ Production rate – Production rates up to 120 ypm for lightweight fabrics
- ▶ Singeing system – Four (4) high intensity (10,000 BTU/in) burners; flame intensity controlled by fabric speed
- ▶ Material handling – Four (4) 12 in diameter flame back up rolls; three (3) 6 in diameter idler rolls; all rolls are stainless steel and water cooled. Flame back up rolls are driven and synchronized driven to line speed
- ▶ Voltage – 460 Volts, 3 Phase, 60 Hertz
- ▶ Compressed air – 60 to 80 PSI
- ▶ Controls – NEMA 12; safeguards to FM or IRI



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