



Lubbock Electric Co.

1108 34th St.

806-744-2336 Lubbock, TX 79411 800-692-4474

TECL17042

MasterFlow II Gin Stand Control

Our newest gin stand control utilizes the **Square D Twido Programmable Controller** for true digital PID loop control. The Text Display indicates %Set Point, %Load, %Trip Point, Trip Point in Amps, Gin Motor Amps, and Feed Speed in Manual. The diagnostic display and logic of operation makes this control very user friendly.

Manual Mode: Feed is controlled at desired feed speed.

Automatic Mode: Feed is controlled via Gin Stand Motor Load Set Point.

Gin Stand, Feeder, and Agitator Motors are not controlled by the PLC, but monitored for interlocking purposes. 'Breast In and Out' are PLC-controlled functions. This control can be configured for either AC or DC feeder motors.

The control consists of the operator station and a separate enclosure for the PLC, power supply, required relays, and feeder motor control. A remote touch screen with full monitoring and control capability is available in either a 10.4" or 5.7" screen size. The remote station and the on board PLC communicate via Ethernet and can be configured for remote internet access.



MasterFlow II Operator Station



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MasterFlow Plus Gin Stand Control

The latest revision of our MasterFlow Plus gin stand control utilizes the **Square D Momentum Programmable Controller**. The Magelis Touch Screen Displays % Set Point, % Load, % Trip Point, Gin Stand Motor Amps, and Feed Speed in Manual. All adjustments are made via the Touch Screen. Diagnostic display with help pages pop up in the event of alarms with step-by-step troubleshooting procedures. MasterFlow Plus is very versatile with Ethernet, Mod Bus Plus and various other communication options.

Manual Mode: Feed is controlled at desired feed speed.

Automatic Mode: Feed is controlled by the Gin Stand Motor Current Setpoint. The Gin Stand, Feeder, and Agitator Motors are not controlled by the PLC, but monitored for interlocking purposes. 'Breast In and Out' are PLC-controlled functions. This control replaces the DC control with an AC Variable Frequency Drive.

The control consists of the operator station and a separate enclosure for the PLC, power supply, required relays, and feeder motor control. A remote touch screen with full monitoring and control capability is available in either a 10.4" or 5.7" screen size. The remote station and the on board PLC communicate via Ethernet and can be configured for remote internet access.



MasterFlow Plus Operator Station

MasterFlow Gin Stand Control

Our original MasterFlow Gin Stand Control utilizes a **Lubbock Electric Designed** printed circuit board with a loop control algorithm that has a proven record of over 30 years. This control is the lowest cost load sensing gin stand control on the market. **Lubbock Electric Company** has now sold over 500 of the **LECO2005 Gin Stand Controls**. The LECO2005 Gin Stand Control is a relay logic based controller. The Master Flow II REV. C DC control board controls Automatic Load Sensing and Manual feed functions. Although the LECO2005 is an analog control and utilizes older technology, it continues to control hundreds of gin stands across the cotton belt. This compact control is completely contained in one 16" x 14" enclosure. It will only work with DC feeder motors.



The Original LECO MasterFlow Gin Stand Control

For Product Flyers on the MasterFlow, MasterFlow II, or MasterFlow Plus, click on <http://www.lubbokelectric.com/products/flyers.html>