



System 1200 Tonnage Monitor is designed to protect your machine from dangerous over tonnage conditions as well as protecting dies, assessing tool wear and control part quality.

The primary purpose is to measure and display the force being applied to the frame of a mechanical, hydraulic, or servo power press.

The force applied during the working portion of the stroke is compared with allowable limits based on the capacity of the machine and correct operation of the die and material being used.

Present tonnage readings, status messages, and present tonnage limits can be examined or programmed through the operator interface.

Peak forward tonnage and peak reverse tonnage can be selected for viewing.

Display Tonnage Curve Graph.

Color LCD Touchscreen display allows for easy navigation.

Meets OSHA Requirements 29CFR1910.217 (f) (4) to operate within machines rated capacity.

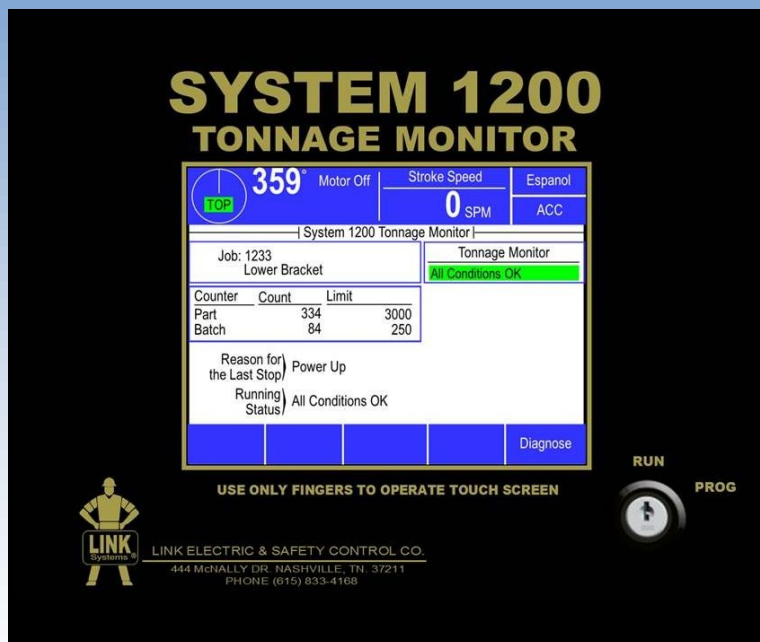


Link Systems The Industry Leader

For 45 years Link Systems has been at the forefront of innovation in the Stamping Industry. Our products are researched, designed and built in our facility in Nashville, Tennessee USA. The Link Systems Design Team takes great effort to produce the finest quality products to meet the needs of customers while insuring the maximum protection and production that can be achieved.

Our product line is flexible enough to provide a specific control or monitor, complete integrated systems for your presses. We also provide engineering consultation, free safety surveys, installation, and repair service for our products.

Link Systems I200 Tonnage Monitor



BENEFITS

- Protect Machines From Dangerous Over Tonnage Conditions
- Protect Dies
- Assess Tooling Wear
- Control Part Quality

FEATURES

- Storage For 500 Job Settings
- Can Be Configured For One, Two or Four Strain Gage Connections
- Separate “Top Stop” and “Immediate Stop” Relay Contacts
- Tonnage Graphs Displayed
- Espanol English Softkey
- Access Control
- Auto-Setup Feature
- Part Counter, Batch Counter, Quality Counter, Scrap Counter, and Cycle Counter



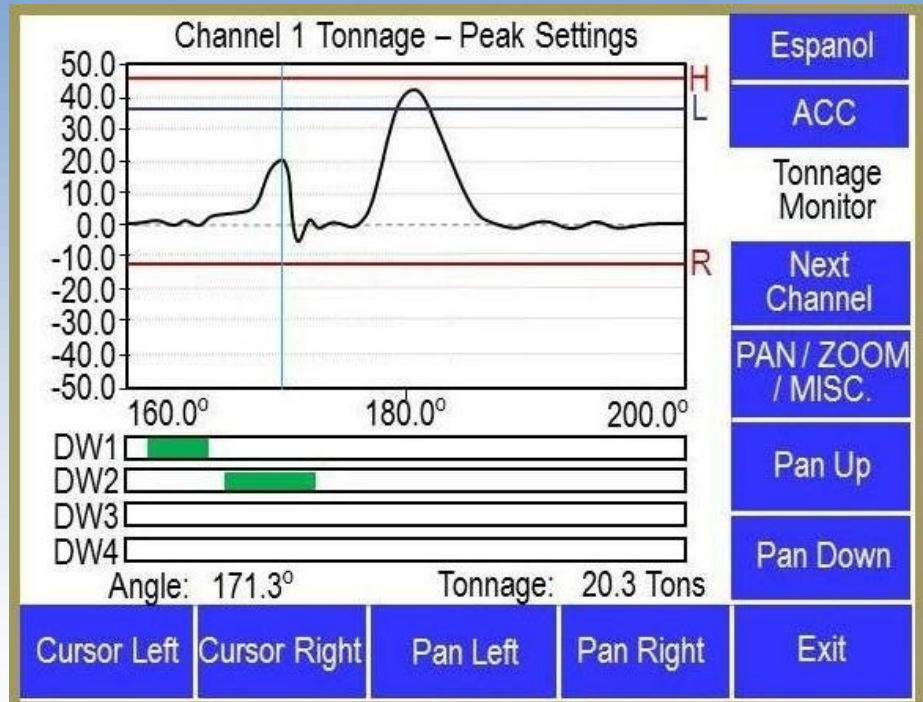
The Tonnage Graph provides the operator or die setter more detailed analysis of machine forces by displaying tonnage signatures.

Where closer monitoring is desired in these applications, the tonnage monitor provides up to four "Data Windows" to monitor additional peaks other than the absolute maximum peak tonnage. These additional peaks are referred to as "local" peaks. Each data window consists of a separate high and low limit that are used from a given start angle to a given end angle or is enabled via hardware inputs – depending on whether or not the optional 5100-11 encoder is used.

The use of the encoder also enables the following features:

- Provides digital inputs available for setup mode indication and sensor based part and scrap count inputs.
- A total tonnage curve can be programmed that places limits on the maximum allowable total tonnage at specific positions in the stroke.
- Tonnage graphs are more directly comparable when the press speed changes.
- A reference graph can be stored for each job and overlaid with the current tonnage graph for comparison.
- The crank angle and crank speed are displayed.

Tonnage Monitor Graph Display

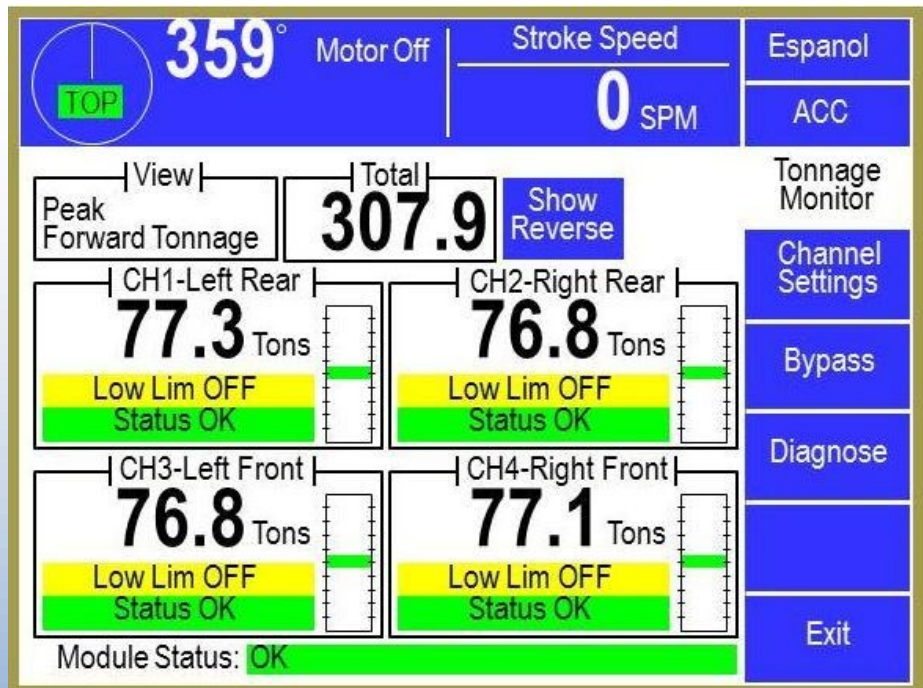


The operator interface main screen provides the current status of the tonnage monitor overall and indicates if attention is required.

The operator may navigate to the Tonnage Monitor, Job Setups or Counters screen by pressing inside the blue-bordered box of each area. An optional communications card is available with 2 serial ports and an Ethernet port. The communications card enables the use of the following features:

- The optional LinkNet shop floor information collection system networks the tonnage monitor, collects downtime, production, and other information, and offers extensive reporting and management features.
- An optional MODBUS protocol (RTU or TCP) can be used over serial port or Ethernet port for connectivity to PLC's or data collection programs.

Tonnage Monitor Main Screen



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