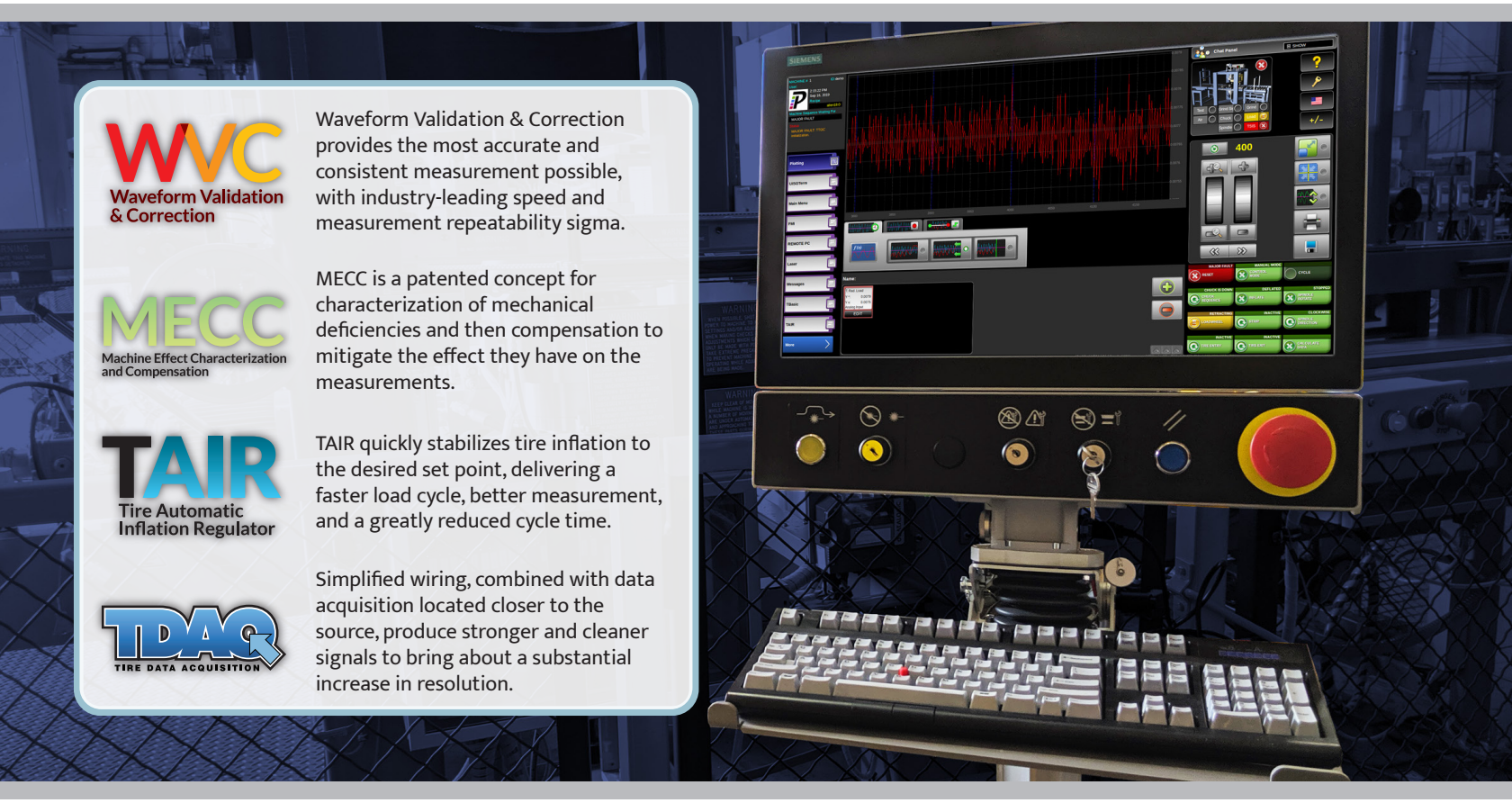
CTI

# TTOC6

So Much More Than Just a Controller

## Software like WVC, MECC, Air Learn, TDAQ, and improved motion algorithms allow a testing machine to test, mark, and sort more than 3 tires every minute.



**WVC** Waveform Validation & Correction

Waveform Validation & Correction provides the most accurate and consistent measurement possible, with industry-leading speed and measurement repeatability sigma.

**MECC** Machine Effect Characterization and Compensation

MECC is a patented concept for characterization of mechanical deficiencies and then compensation to mitigate the effect they have on the measurements.

**TAIR** Tire Automatic Inflation Regulator

TAIR quickly stabilizes tire inflation to the desired set point, delivering a faster load cycle, better measurement, and a greatly reduced cycle time.

**TDAQ** TIRE DATA ACQUISITION

Simplified wiring, combined with data acquisition located closer to the source, produce stronger and cleaner signals to bring about a substantial increase in resolution.

## Improved Capability

- In addition to WVC and MECC software, the TTOC6 is equipped with Air Learn software that monitors the machine's air regulation performance statistics to quickly stabilize tire inflation to the desired set point.
- Integrated with our Tire Data Acquisition (TDAQ) product to substantially increase measurement resolution and improve noise immunity.
- Tire motion algorithms, along with WVC and TDAQ, allow a testing machine to test, mark, and sort more than 3 tires every minute, while maintaining industry-required measurement repeatability.

## Adapts to Your Control Methodology

- Variety of customizable architectural implementations
- Choose your PLC (Allen-Bradley/Rockwell, Siemens, etc.)
- Distributed or rack I/O
- Same full-function TTOC6 on new CX111 or machine upgrade

## Simplified Maintenace

- Fewer electronic components, fewer points of failure, better reliability
- Online help with video for tooling changes
- Web-based message logs, servo setups, and machine configuration
- "Instant Message" support at machine any time, all the time

## Fits Your Business

- Modular design for scalability a enables phased approach to tire testing improvements
- Compact flash drive allows standalone operation and no data loss if plant network fails
- Built-in and optional data acquisition and integration help you achieve shop floor and product traceability requirements

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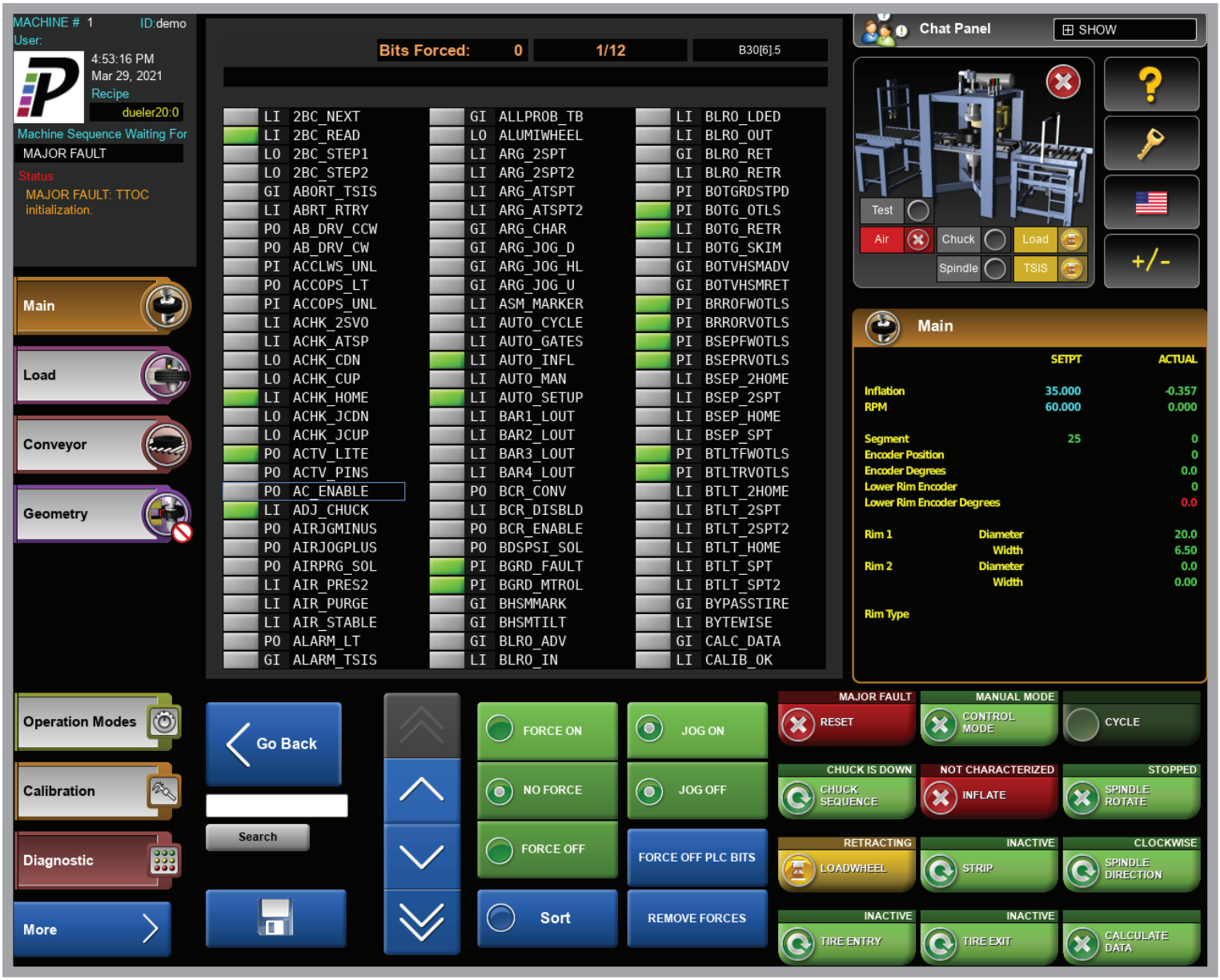
## TTOC6 features an easy-to-use, graphics-based UI




## Diagnostics

Extensive Diagnostics allow maintenance to control various PLC bits.

Customize a "favorites" screen, mixing analog and PLC I/O to display status for any machine function. The search function also makes it easy to find I/O of interest.

The data window contains current settings and actual values related to a specific area of control.

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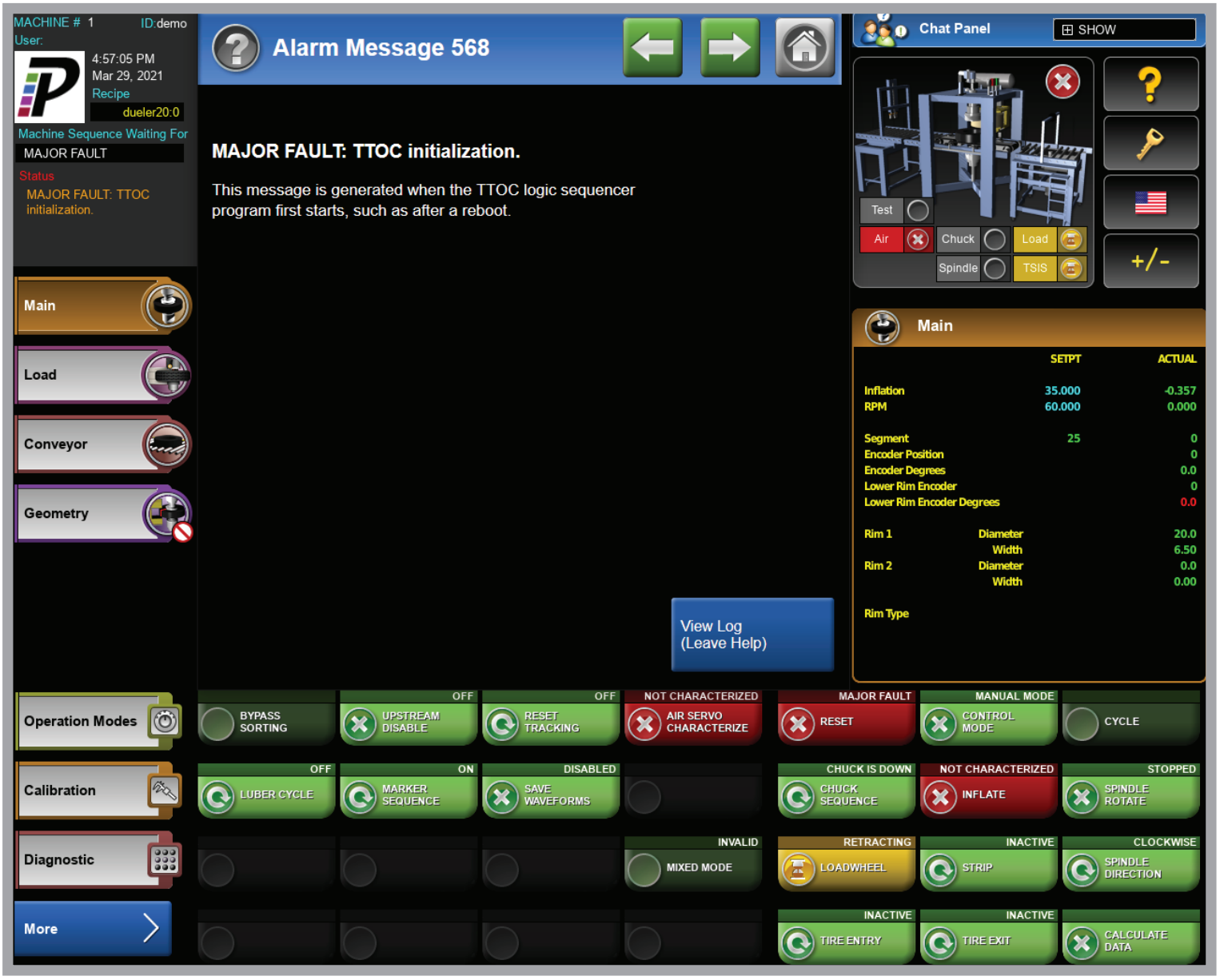


## Customized Online Help

We customize our help to match our customized test equipment. It includes photos and video to explain operational procedures and troubleshooting methods.

Users can select topics for general help, while calibration help appears automatically to guide users through these specialized tasks.

For help with responding to the current machine problem, just touch the alarm message in the status window.

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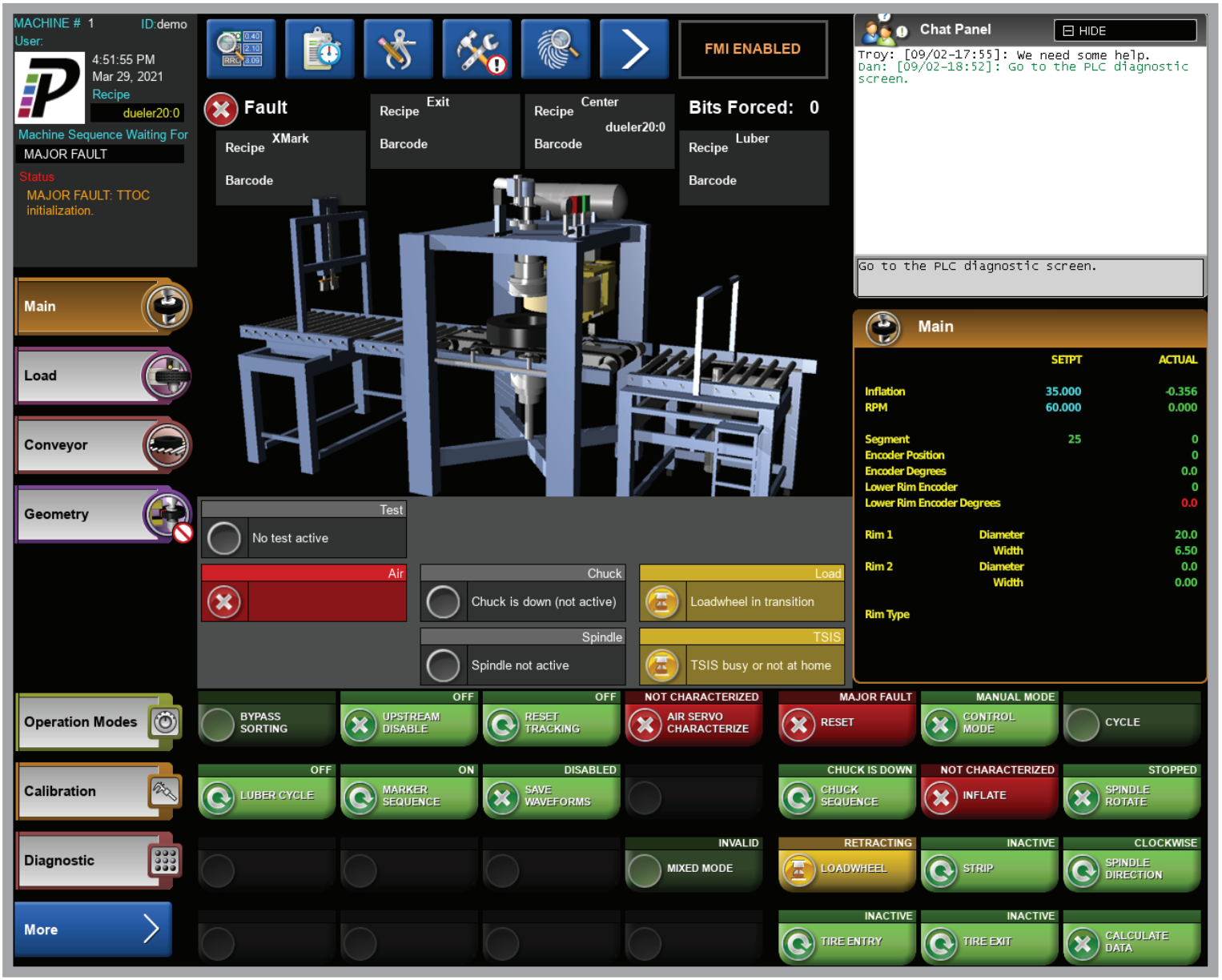


## Machine Visualization and Remote, Real-time Support

The machine visualization screen displays status. The thumbnail version of the screen includes cycle status indicators, while the full-size version includes tracking data and fault details. This information is also instantly available for plant supervisors and engineers -- from their desktop computer!

Real-time support is only a touch away in the Chat Panel. The Chat Panel blinks to alert machine personnel to incoming messages. Once expanded, this instant messaging application allows direct communication with Poling Group engineers to solve problems -- without waiting for support to arrive on-site.

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## Integrated Plotting Software

Diagnose machine problems with ease. The plotting software provides engineers quick and easy access to watch any of the machine's PLC status bits, I/O points, or analog channels in real-time. Plots can be started manually or set to trigger based on machine events, such as capturing the data of a full tire sequence from chuck-up to chuck-down.

Three operation modes are available: Standard plot mode records a single revolution of tire data. Oscilloscope mode records each tire revolution on top of the previous, allowing engineers to view differences in machine behavior between each revolution. Last, chart recorder mode stores up to 5 minutes of plot data, which can either be printed directly to PDF or saved to disk as a CSV file for later review.

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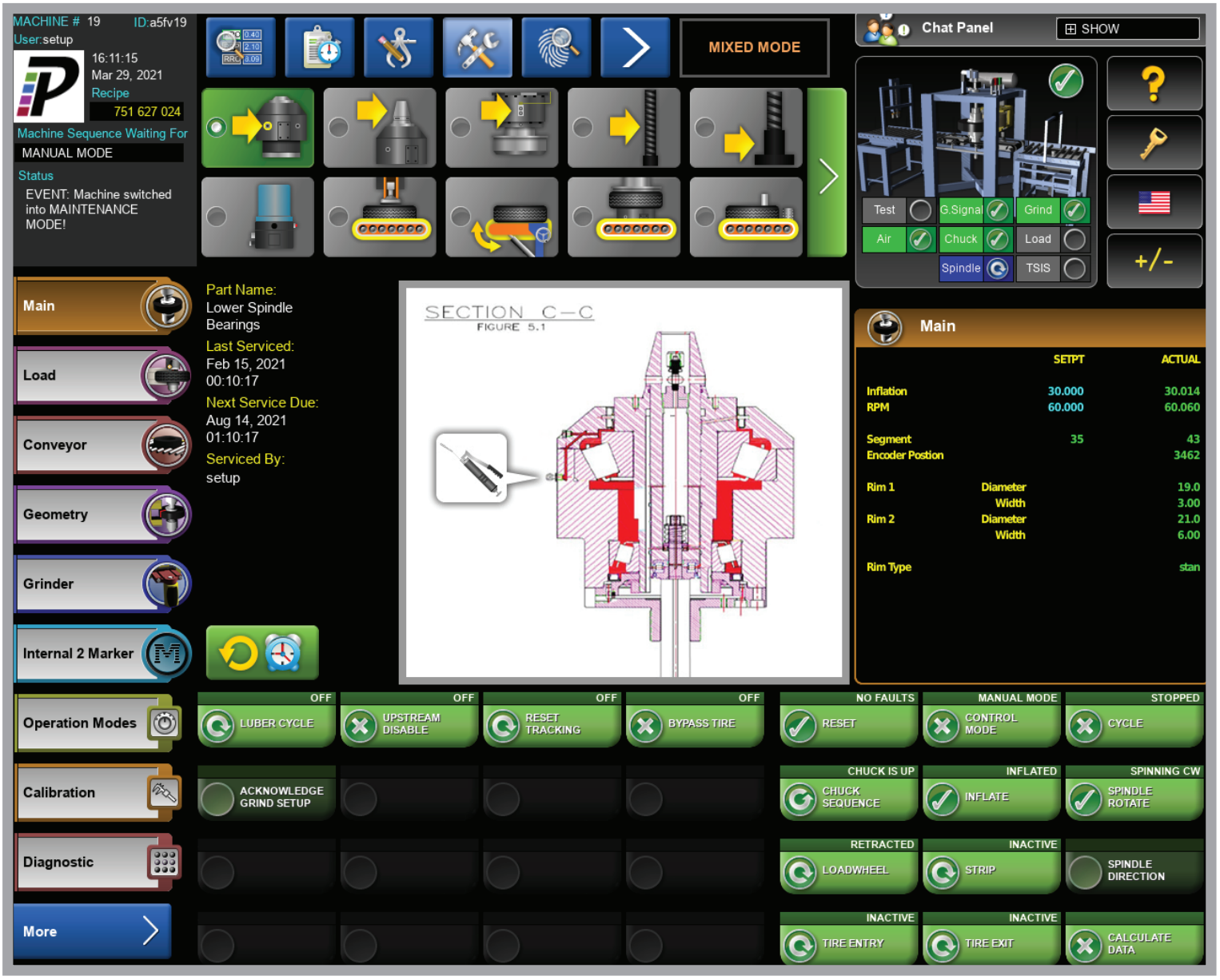


## Maintenance Reminders

Since routine maintenance and proper machine greasing are essential in keeping a tire testing machine running at peak performance, the TTOC6 provides a centralized system for machine maintenance tracking. As maintenance checkpoints are reached, reminder indicators are visible until the maintenance process has been addressed.

Photos / schematics are displayed to aid in each part's maintenance routine. All maintenance activity is logged by date, personnel, and machine part. Having this data available allows all plant personnel and management to stay informed about the machine's maintenance status.