

Telsmith **TRAC10**[®]



Automated Control System for Telsmith T-Series Cone Crushers

The Telsmith TRAC10[®] is a stand-alone control system that monitors crusher operations, provides automated calibration and setting controls, and protects the crusher from overload; all to yield greater crushing performance and efficiency.

Optimum crusher settings are maintained via remote monitoring adjustment using the TRAC10[®]. Operators can initiate an automated calibration process via the touch screen monitor, that automatically “zero’s-out” and resets to the proper setting. Operators can also modify the crusher setting at any time, even while crushing.

TRAC10[®] monitors crusher operations to help you protect your investment and lower operating costs. Sensors continuously monitor crusher lube, hydraulic and electrical systems, making adjustments and providing advanced warnings, even though the operator may be busy in other areas. Historical records and trending data provide additional troubleshooting tools, and may be used for predictive maintenance.

The Telsmith TRAC10[®] can be installed economically into any plant. As a stand-alone crusher control system, the TRAC10[®] provides Telsmith cone crusher operators with many of the advantages of automation without the budget for a complete rework of plant controls.



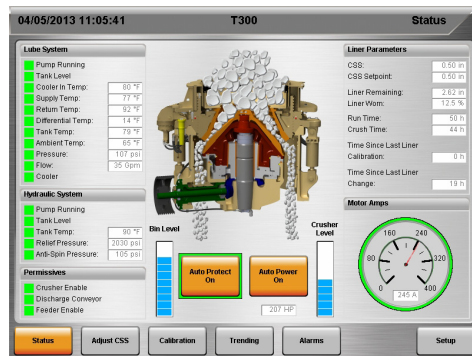
***Monitor crushing
operations via your
mobile device.***



www.telsmith.com

Visual Crusher Management

Crusher Status Screen



Considered the "Mission Control" for TRAC10® and the management of your crushing operation, the Crusher Status Screen provides data on the lubrication and hydraulic systems, crusher setting, percentage of liner wear, operating hours, as well as links to additional informational screens.

Crusher Adjustment Setting Screen



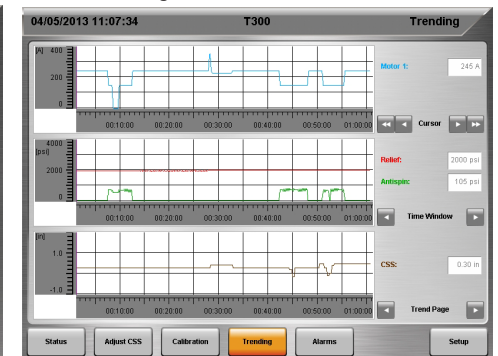
Crusher adjustment is as simple as keying in a new setting. Your TelSmith crusher will automatically rotate to the new setting even during the crushing process.

Liner Calibration Screen



In order to account for liner wear it is necessary to periodically calibrate your TelSmith cone crusher. Calibration is quickly completed by allowing the hydraulic anti-spin system to detect a zero setting. Upon each calibration, liner wear is calculated, allowing the system to provide a warning when liner wear reaches 50%, 75%, 90%, 95% and 100%.

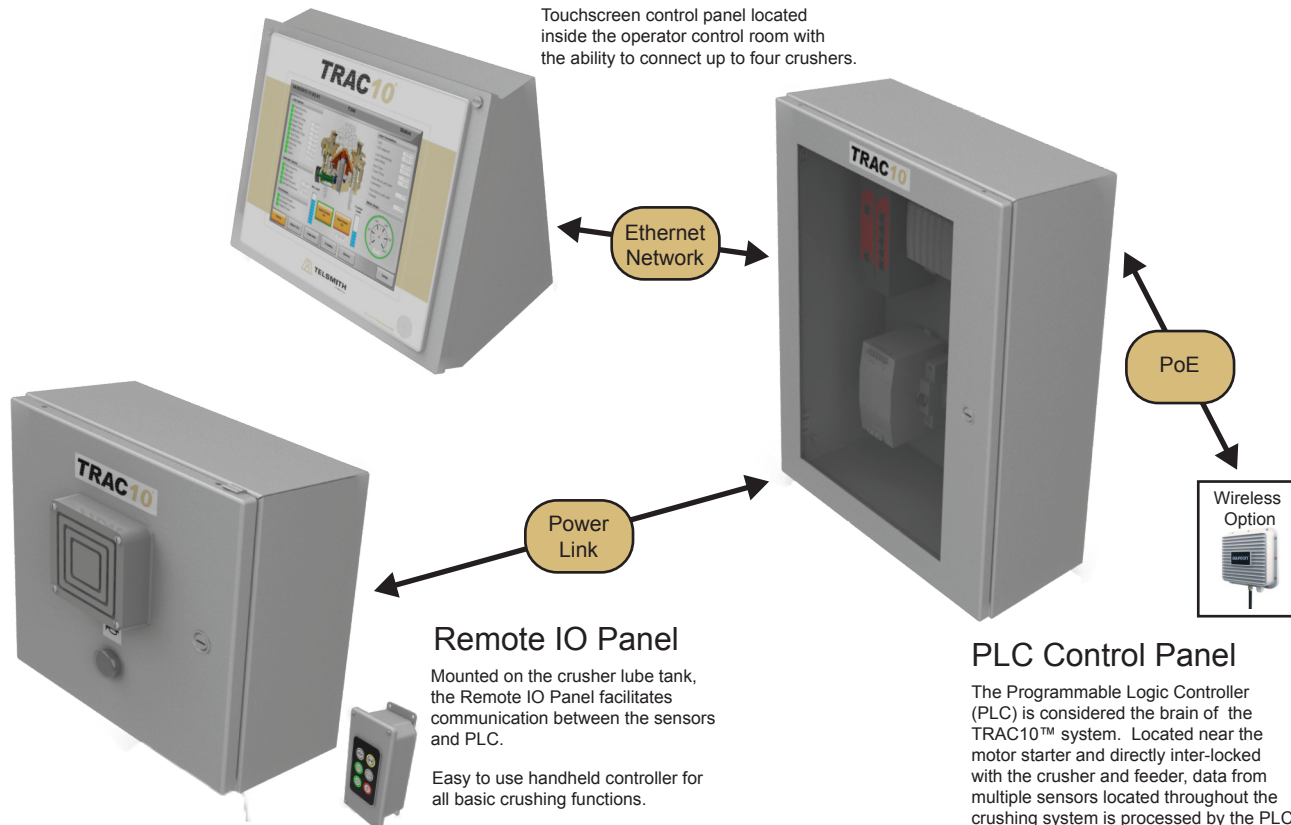
Crusher Trending



Historical operating data, including the motor, hydraulic relief, anti-spin, lubrication temperatures & pressures, and closed side settings are made available to help you analyze productivity.

Operator Interface

Touchscreen control panel located inside the operator control room with the ability to connect up to four crushers.



Remote IO Panel

Mounted on the crusher lube tank, the Remote IO Panel facilitates communication between the sensors and PLC.

Easy to use handheld controller for all basic crushing functions.

PLC Control Panel

The Programmable Logic Controller (PLC) is considered the brain of the TRAC10™ system. Located near the motor starter and directly inter-locked with the crusher and feeder, data from multiple sensors located throughout the crushing system is processed by the PLC.

Realtime Monitoring

Main Functionality

- Adjust crusher closed side setting
- Automatic Liner Calibration
- Automatic overload protection
 - Upper frame bounce
 - High motor load
 - Head spin detection
- Tracks liner wear
- Trends operating parameters
- Tracks alarm messages
- Detailed diagnostic tool for troubleshooting
- Extended historical data storage
 - Stored on 8G USB
 - Data stored every two seconds
 - TRAC10 PLC stores one year of data per machine

Remote Access

- Extract data with FTP tool
- View-only web server
- Take full or view-only control with Real VNC