

FANUC

AI Servo Monitor

Maximize uptime with
preventive maintenance
data



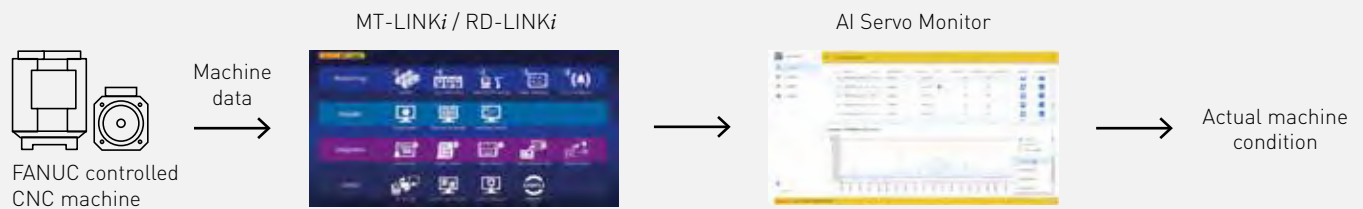
AI Servo Monitor is a software that visualizes anomalies of drive systems for servos and spindles through machine learning. Daily processing data is analyzed and displayed in easy-to-read, intuitive graphs.

Users can easily monitor performance of machines equipped with FANUC CNCs through data collected by MT-LINK*i* or ROBODRILL-LINK*i*.

AI Servo Monitor

How does it work?

- With AI Servo Monitor, artificial intelligence creates a baseline model via recorded servo data from the machine running in a normal state.
- Each component in the frequency spectrum converted from time series of torque is described as a model through machine learning.
- The difference between this model and actual time series creates an anomaly score.
- On a web interface, users can see the anomaly scores presented in graph-form. Email notifications can be issued if this value exceeds the predefined thresholds.



Key features

- Condition monitoring of mechanical elements of axes
- No additional sensors necessary as data comes directly from the machine servo motor allowing a failure prediction system to be easily created
- Easy monitoring of the anomaly score in intuitive graphs on a web interface
- Automatic creation of a baseline model through machine learning

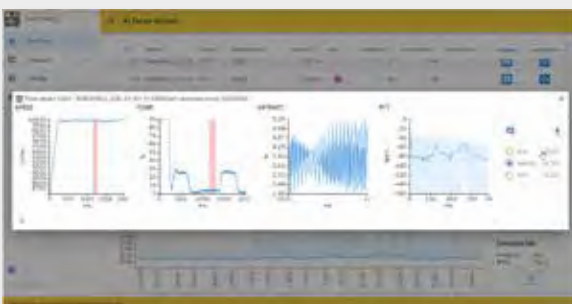
Key benefits

- Helps prevent unexpected downtime and enhances the reliability of FANUC servo & spindle motors as well as mechanical components of the machine
- Enables visibility to support condition-based maintenance
- Machine availability is improved due to the early detection and notification of potential equipment failures
- Improved notifications reduce unnecessary service costs



Main View

Displays the result of analyzed waveform data using anomaly and variance detection. The graphical interface shows the daily aggregated analysis result and values.



Raw Data Chart Text

The raw data chart shows the waveform of the collected data used for the analysis. Not only raw data, but also the individual spectral components of the measured torque signal are displayed in a diagram.