# Predictive Maintenance for CNC Machines in Automotive Manufacturing

The deployment of PDX, Predictronics' software solution for predictive maintenance, at Hino Motors helped to predict a CNC machine failure before it occurred, preventing unplanned downtime and unnecessary repairs. This improved maintenance scheduling, enhanced productivity, and increased spare part inventories, resulting in overall cost savings.

## About This Case

- Predictronics worked with Hino Motors to identify two CNC machines and one welding machine that could benefit the most from predictive maintenance. Four specific components were monitored: the spindle, ball screw, clamp, and conveyor motor.

- Predictronics configured and deployed the solution—based on an existing analytics template—to monitor the health of the CNC machines.

- The solution proved its value after just one month of deployment and, based on the downtime history over the course of a year, this automotive supply manufacturer will realize ROI in less than two years.

## Impact & Return on Investment
### CNC PREDICTIVE MAINTENANCE

**Labor**
ASSIGNMENT OPTIMIZATION

**2 Yrs**
ROI IN LESS THAN 2 YEARS

**20%**
DOWNTIME REDUCTION

The deployment of Predictronics' PDX platform for Hino Motors won the 2022 Manufacturing Leadership Award for Artificial Intelligence and Machine Learning.

*"After meeting and interacting with all the various vendors at the National Association of Manufacturers event, I realized I already had all I need in our partnership with Predictronics."*

-PETER DOWLING, Sr. Project Engineer, Hino Motors

## predictronics™

Predictronics delivers Industrial AI and predictive analytics software solutions and services which provide actionable data-driven intelligence to drive real-world impact in industrial applications.

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