

JR AUTOMATION™

A Hitachi Group Company

Think. Solve. Create.

FAST FACTS

Industry
Aerospace

Machine PLC controller integrated with IIoT platform

Scalable solution to multiple assets

Over 200 machine tags record machine performance & health data

Real-time machine health monitoring

- Spindle temperature
- Spindle vibrations
- Servo torques

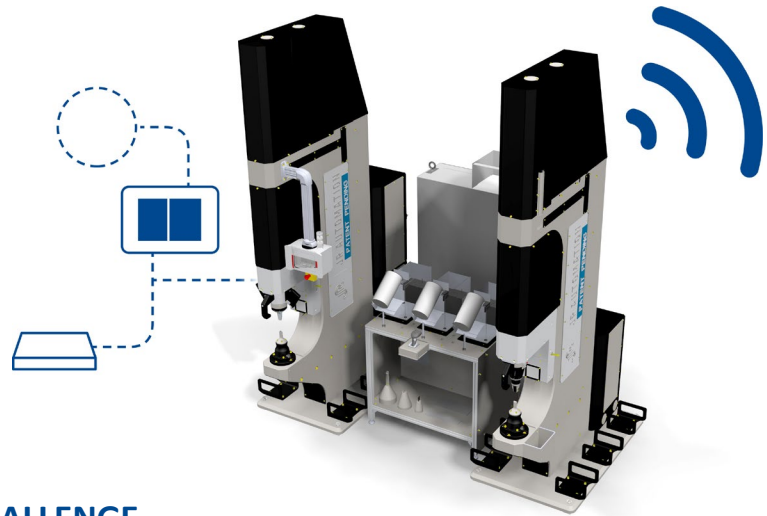
Real-time machine performance monitoring

- Part cycle time trends
- Completed cycle histograms

SOLUTION

Solution architecture uses machine PLC communicating to a backend server via OPC UA and the front-end server providing real time machine health and performance monitoring dashboards as well as proving signals for the efficient process control on the machine.

SmartAttach™ - Industry 4.0 Ready Automated Machine



CHALLENGE

Oftentimes, enabling IIoT is not considered at the time of an automation or machine tool design in the industry. SmartAttach™ is a leading edge-technology in terms of automation to install nut plates. The machine is Industry 4.0 ready off the shelf.

OUTCOMES AND BENEFITS

Industry 4.0 was the design requirement for this machine that resulted into a fully Integrated architecture where the machine PLC is fully integrated with the IIoT platform resulting into seamless data flow from several machine sensors and devices.

