USE CASE

RIVET GUN MAINTENANCE

USING THE ACCELLA MFG Bot™

A top tier manufacturer of automotive components needed a reliable, affordable way to avoid unplanned breakdown of rivet gun robots which results in unplanned downtime of the entire manufacturing line for car undercarriages and causes increased repair charges.

CHALLENGES

- Customer didn't have historical data available to train the model, so data needed to be collected first.
- Customer wanted development of a technically superior solution that simultaneously reduced maintenance cost.

SOLUTION

- A custom machine learning model on the Accella MFG Bot™ that determines the remaining useful life of the rivet gun tool.

PROCESS

- Collect rivet gun error messages and analyze repair history.
- Use that data to train a model on the Accella MFG Bot™ to calculate the remaining useful life of the robots.
- Implement the AI model and continue training to boost accuracy.
- Predicted remaining useful life of the equipment is used to build a streamlined maintenance calendar.

OUTCOMES

- AI-based prediction of estimated days to repair reduces unplanned downtime of rivet guns and
- Avoids high repair cost of broken rivet guns.
- Streamlined maintenance calendar reduces maintenance cost overall and increases efficiency.

Tina Baumgartner, Chief Business Officer
+1 510-508-8462, tina@accellagroup.com
www.accella.ai