AI Copilot for Automotive Manufacturing

➤ Automated and scalable time series AI for greater operational reliability

Address disruptions before they impact operations

Timely, understandable alerts
Discover and understand real-time operational issues in all plant systems to improve OEE

Centralized data monitoring
Better decision making through centralized plant scale analytics

Effortless activation & scale
Operationalize and expand with minimal resources, time, and effort

➤ Use Cases across Automotive Manufacturing

<table>
<thead>
<tr>
<th>Welding</th>
<th>Wire Bending</th>
<th>Robotic System</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Problem:</strong></td>
<td>Quality of machine welds varies over time resulting in expensive manual rework</td>
<td>Undetected quality deviations at point of production lead to downstream production waste</td>
</tr>
<tr>
<td><strong>Solution:</strong></td>
<td>Discover patterns that precede quality variation in robotic welds and provide smart alerts preceding defective welds</td>
<td>Identify quality deviations by comparing observed patterns with known good patterns to eliminate defects during production</td>
</tr>
<tr>
<td><strong>Benefit:</strong></td>
<td>96% reduction in downstream rework and material losses without increasing inspection costs</td>
<td>Real-time quality monitoring results in improved production yield</td>
</tr>
</tbody>
</table>

“We analyzed 62,000 welds in about two and a half minutes. Our engineers were able to look at the different classifications that Falkonry identified and identify which welds were superior, which were good, which were normal and which were poor.”

CIO & SVP
Toyota Material Handling, North America
Case study: Quality defect reduction using time series AI

Automotive Welding Operations

$14,000 per machine per day rework cost

- Falkonry’s AI Suite helps limit process failures and uphold strong product standards
- Falkonry is able to identify bad welds before they turn into quality and warranty issues

94% accuracy in classifying welds
96% reduction in welds sent for rework
10-20 mins to discover patterns