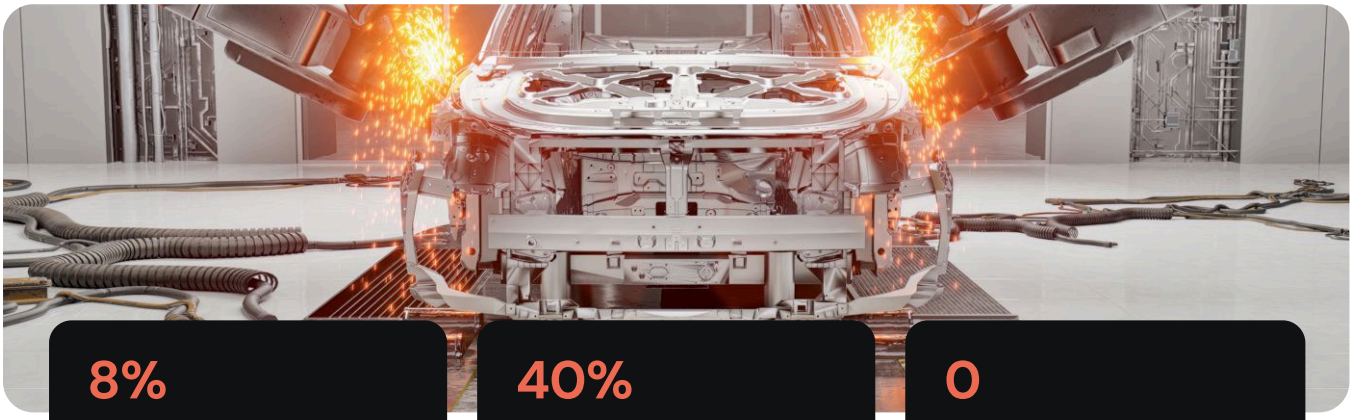
Automotive · Global

An EV manufacturer raised production output by 8% in 60 days with PM and tool tracking

An electric vehicle maker put preventive maintenance, calibration and tool tracking for its assembly lines in one system, and recovered output lost to hidden tool failures and missed PM.



8% more production output within the first 60 days

40% fewer tool-related stoppages

0 missed calibrations

AT A GLANCE

INDUSTRY
EV manufacturing

PRODUCTS
Two- and three-wheelers, battery systems

LOCATIONS
Multiple production plants

PREVIOUSLY
Excel, notice boards, logbooks

FEATURES USED
Assets · Maintenance · Work · Stores

01 The client

The client is an electric vehicle maker building two-wheelers, three-wheelers and battery systems at multiple plants. Its lines rely on torque devices, welding equipment, battery-test rigs, robotic cells and specialized tools.

Each of these needs accurate calibration and strict preventive maintenance. In a competitive market, small disruptions turn into large output losses.

02 The challenge

Rapid growth exposed losses nobody was measuring. Tools failed between shifts without being reported, PM was missed, and calibration was hard to keep track of.

- Hidden production losses from unreported or delayed tool failures between shifts.
- Missed PM on machines, fixtures and tools causing unexpected stoppages.
- Poor traceability of torque wrenches, battery-handling tools and test equipment.
- Calibration not visible, causing accuracy errors and batch rejections.
- Tracking split across Excel, notice boards and logbooks.

03 What they set up in Asset Infinity

The manufacturer ran tool and equipment maintenance for its assembly lines in Asset Infinity, with every tool labeled and in one register.

Assets

Every tool labeled and traced

Wrenches, meters, jigs, fixtures and battery tools carry QR or RFID labels. Check-out and return show each tool's location, availability and current user.

Maintenance

PM and calibration on schedule

Preventive plans follow OEM guidelines for every tool, machine and fixture. Calibration is scheduled the same way, with reminders and certificates stored on the tool.

Work

Breakdowns reported at once

Operators report a breakdown from their phone with photos, readings and symptoms. Supervisors are alerted immediately, and recurring failures show up in dashboards.

Stores

Spares for every machine

Spare parts for assembly tools and machines are tracked, with reorder advice before stock runs low and a record of which spare went to which machine.

04 How it works day to day

Here is how tools and equipment are managed on the assembly lines now.

TOOL-ROOM STAFF
Issues tools by scan
Each tool is checked out to an operator by scanning its label and checked back in at the end of the shift, so its location and user are always known.

SYSTEM
Raises PM and calibration
Preventive plans create work orders for tools, machines and fixtures when due, and calibration reminders go out before a tool falls overdue.

TECHNICIAN
Completes the checklist
Required checklist fields prevent tick-and-go entries. Readings, photos and the calibration certificate are stored on the tool's record.

OPERATOR
Reports a breakdown
When a tool or machine fails, the operator raises a request from the phone with photos and symptoms, instead of waiting for the next shift.

SUPERVISOR
Assigns the repair
The supervisor is alerted, turns the request into a work order and assigns it. Missed PM is escalated to the supervisor too.

STOREKEEPER
Issues the spare
Spares are issued to the work order, recording which part went to which machine. Reorder advice keeps critical spares in stock.

MAINTENANCE HEAD
Reviews failure patterns
Dashboards show recurring failures, hotspots and tool use, so root causes are fixed before they cost more output.

05 Before and after

	BEFORE	WITH ASSET INFINITY
Tool failures	Unreported between shifts	Reported from the line as they happen
Preventive maintenance	Missed, causing stoppages	Scheduled with escalation when overdue
Calibration	Not visible, leading to rejections	Scheduled with reminders, zero missed
Tool location	Unknown, operators waiting	Checked out and returned by scan
Records	Excel, notice boards, logbooks	One register for tools and machines
Output	Hidden losses	8% higher within 60 days

06 How it rolled out

1

Line, tool crib and quality. Deployed across the production line, tool crib and quality departments with no downtime to manufacturing.

2

Trained in small groups. Operators, tool-room staff and supervisors learned the workflows in small groups.

3

Connected to MES and ERP. The client connected its existing MES and ERP through the API.

07 The results

- Full visibility of tool movement across lines and shifts
- Faster root cause analysis and fewer repeat failures
- Fewer quality rejections as tools were calibrated on schedule
- Supervisors can check line readiness before each shift

08 Why it worked

Losses made visible

Breakdowns are reported when they happen, so time lost between shifts is finally recorded and can be fixed.

Calibration in the same plan

Calibration runs on the same schedules as PM, so certificates and due dates sit on every tool's record.

Tools always findable

Scanning tools in and out removes the search and wait that slowed lines down.

09 Looking ahead

By putting preventive maintenance, calibration and tool tracking in one system, the manufacturer recovered 8% of production output within 60 days and cut tool-related stoppages by 40%.

Maintenance has moved from reactive firefighting to planned work. As new lines and plants come up, they start with the same tool register, PM plans and calibration schedules.

See it on your own assets

A 30-minute demo, set up for a manufacturer running assembly lines.

The client's name is withheld for confidentiality. Results are as reported by the client.

Book a demo

Start a 14-day free trial