UAV MANUFACTURING
QUALITY CONTROL

NO MORE ROUTINE FLIGHT TESTS

Inspect and validate every UAV on the ground – without flying it

weflo.ai

GROUND-BASED END-OF-LINE (EOL) INSPECTION FOR UAV MANUFACTURERS



DRQC_01

Powertrain Inspection

Motors & Propellers & Frame



DRQC_02

IMU Calibration

Gyroscope · Accelerometer



DRQC_03

Magnetometer Calibration

Compass · Heading



DRQC_04

Battery Diagnostics

Battery · Power Health

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NO MORE ROUTINE FLIGHT TESTS.

Validate every airframe on the line, not in the field.

THE PROBLEM

- Traditional Process

Assembly > Outdoor Flight Test > Crash Risk > Rework & Delay > Shipment

- ⊗ High crash rate and rework cost
- ⊗ Weather and airspace dependent
- ⊗ Inconsistent results between operators
- ⊗ Production delay and bottleneck

THE SOLUTION

- WEFLO Process

Assembly > Inspection > Calibration > Validation > Shipment

- Minimize routine flight tests
- Verify every airframe on the line
- Consistent, repeatable results
- Faster throughput, lower total cost

EXECUTIVE SUMMARY

Routine outdoor flight tests slow production, introduce risk, and increase manufacturing costs.

WEFLO replaces repetitive flight testing with automated end-of-line inspection and calibration-allowing every airframe to be validated before shipment.

AUTOMATED END-OF-LINE INSPECTION FOR DRONE MANUFACTURING

1
DRQC_01
Powertrain Inspection
Motors & Propellers & Frame

2
DRQC_02
IMU Calibration
Gyroscope · Accelerometer

LIVE DEMO
3
DRQC_03
Magnetometer Calibration
Compass · Heading

4
DRQC_04
Battery Diagnostics
Battery · Power Health

WHY IT MATTERS

* Based on internal analysis and reference cases from Korean UAV manufacturers.

Flight Test Crash Rate
20%→0.2%*

Inspection Coverage
100%
Airframes

Digital Traceability
Built-in
by Default

Repeatable Quality
Repeatable
Standard



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FIELD UAV
INSPECTION & READINESS

YOUR UAV FAILED. KNOW WHY?

Detect abnormalities before launch and identify what went wrong after flight

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AUTOMATED UAV DIAGNOSIS, NEXT-ACTION GUIDANCE & REPORTING FOR OPERATORS



verti-Pit mini

Portable Field Station

Multicopter



verti-Pit X

Robotics Pad

General-purpose UAVs



verti-Pit X mini

Portable Pad

Fixed-Wing

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NO MORE GUESSWORK AFTER UAV ISSUES.

Get the diagnosis, next action, and report-automatically.

THE OPERATOR'S PROBLEM

- After a UAV issue

Visual Check > Mission > UAV Issue > Manual Trouble-shooting > Manual Reporting

- ⊗ Cause is unclear
- ⊗ Next action depends on experience
- ⊗ Reporting takes time
- ⊗ Maintenance history is fragmented

THE SOLUTION

- Automated response to every UAV issue

Place UAV > Automated Health Check > AI Diagnosis > Next-Action Guidance > Digital Report

- ⊙ Abnormality identified
- ⊙ Go / No-Go decision supported
- ⊙ Maintenance action recommended
- ⊙ Report and history generated

EXECUTIVE SUMMARY

Routine UAV operations still rely on manual pre-flight checks and operator experience. Hidden faults, inconsistent inspections, and missing maintenance records increase mission risk and reduce fleet readiness.

WEFLO automates pre- and post-flight diagnostics, delivering standardized inspections, digital readiness reports, and actionable maintenance guidance-before the aircraft leaves the ground.

AUTOMATED UAV HEALTH CHECK

Powertrain	Propulsion	Navigation	Battery Health	Electronics	AI Diagnostics
Motors, ESCs, Drive System	Propellers, Balance, Thrust	GPS, IMU, Compass	Voltage, Capacity	Telemetry, RC Link, Sensors	Anomaly Detection

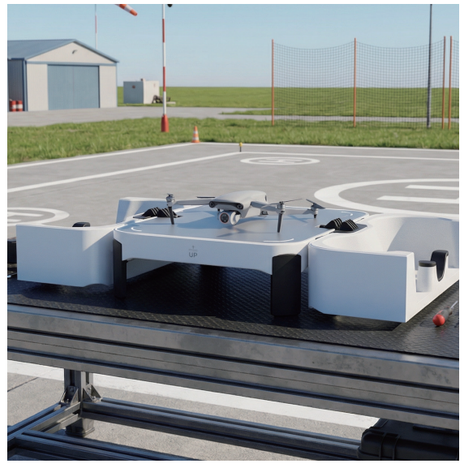
WHAT OPERATORS GET

CLEAR DIAGNOSIS
Know what is abnormal

GUIDED NEXT ACTION
Fly, recheck, or maintain

AUTOMATED REPORT
No manual documentation

COMPLETE FLEET HISTORY
Every UAV
Every inspection







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